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1974 REPORT OF ALFALFA NURSERIES <sup>159</sup>  
EASTERN FORAGE IMPROVEMENT CONFERENCE

PART I. Eastern USA

Conducted Cooperatively by the Various  
State Agricultural Experiment Stations  
and  
The Agricultural Research Service  
United States Department of Agriculture  
in the Eastern United States  
and  
Including Data from Eastern Canada

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✓ UNITED STATES DEPARTMENT OF AGRICULTURE  
Agricultural Research Service  
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1974 REPORT OF ALFALFA NURSERIES  
EASTERN FORAGE IMPROVEMENT CONFERENCE

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INTRODUCTION

This is the fifteenth Alfalfa Nurseries Report of the Eastern Forage Improvement Conference. Previously, this report was an activity of the Eastern Alfalfa Improvement Conference, which changed its name at the 1973 meeting. The report consists primarily of performance data on alfalfa varieties and breeding materials.

This progress report contains findings that may or may not be verified in subsequent experiments. Therefore, data reported and statements contained herein do not constitute publication. FOR THIS REASON, CITATION OF ANY PART OF THE REPORT SHOULD NOT BE MADE WITHOUT PRIOR PERMISSION FROM THE AGENCY(S) CONCERNED.









Virginia Polytechnic Institute and State University

1974 Alfalfa Performance Data

Near average precipitation during the 1974 growing season resulted in good yield averages in all tests except one. Blacksburg Test No. 4 is located in a somewhat droughty field and, consequently, yields at all harvests were low.

Alfalfa weevil damage was light at Blacksburg and only slightly more severe at Orange and Warsaw. Weevils were controlled on all tests except the two (Warsaw and Blacksburg) for which weevil damage notes are included.

Bacterial wilt is present at Blacksburg and is a factor in persistence of susceptible varieties. It does not appear to be a factor at Orange and Warsaw, probably because of warmer summer temperatures.

Anthrachnose is a potential threat anywhere in Virginia. This year it was severe in August at Blacksburg and severely reduced first year stands of Saranac. It was also present at Orange but no data were obtained. Anthracnose was more severe at Warsaw than it has been for a few years but was relatively mild compared to that at Blacksburg.



Alfalfa Variety Test  
Blacksburg, Va. 1974 data

| Entry             | Tons/acre of 12% moisture hay |        |         |       | Weevil <sup>1/</sup><br>damage<br>5-24-74 | Anthracnose <sup>2/</sup><br>8-26-74 | Est. %<br>ground cover<br>9-18-74 | Regrowth <sup>3/</sup><br>9-18-74 |
|-------------------|-------------------------------|--------|---------|-------|-------------------------------------------|--------------------------------------|-----------------------------------|-----------------------------------|
|                   | 6-3-74                        | 7-9-74 | 8-27-74 | Total |                                           |                                      |                                   |                                   |
| NCW 20 (a Syn 1)  | 3.16                          | 1.56   | 1.38    | 6.09  | 2.8                                       | 1.5                                  | 91                                | 1.5                               |
| NCW 20 (b Syn 1)  | 3.19                          | 1.53   | 1.33    | 6.05  | 2.2                                       | 1.5                                  | 90                                | 2.0                               |
| Team K            | 3.24                          | 1.47   | 1.24    | 5.95  | 2.0                                       | 2.5                                  | 84                                | 2.5                               |
| Gladiator         | 3.26                          | 1.46   | 1.20    | 5.93  | 2.8                                       | 2.2                                  | 85                                | 2.8                               |
| Vernal            | 3.38                          | 1.41   | 1.11    | 5.90  | 2.0                                       | 3.2                                  | 79                                | 4.0                               |
| Weevilchek        | 3.16                          | 1.40   | 1.16    | 5.72  | 2.2                                       | 2.5                                  | 85                                | 3.2                               |
| Beltsville 2-An4  | 3.01                          | 1.44   | 1.25    | 5.70  | 3.0                                       | 1.2                                  | 94                                | 1.8                               |
| Beltsville 3-An4  | 3.08                          | 1.44   | 1.17    | 5.69  | 3.0                                       | 1.0                                  | 91                                | 2.8                               |
| WL 307            | 3.06                          | 1.41   | 1.21    | 5.68  | 2.5                                       | 2.0                                  | 91                                | 2.5                               |
| Arc               | 3.13                          | 1.38   | 1.16    | 5.67  | 2.0                                       | 1.5                                  | 89                                | 2.2                               |
| Apalachee         | 2.70                          | 1.51   | 1.30    | 5.51  | 4.5                                       | 2.2                                  | 95                                | 1.2                               |
| Apalachee Phyto 2 | 2.72                          | 1.45   | 1.33    | 5.49  | 3.5                                       | 1.8                                  | 95                                | 1.0                               |
| Saranac           | 3.26                          | 1.32   | .91     | 5.49  | 2.2                                       | 5.0                                  | 65                                | 3.0                               |
| NCW 18 (b Syn 1)  | 2.75                          | 1.46   | 1.27    | 5.48  | 3.2                                       | 1.0                                  | 94                                | 2.0                               |
| Williamsburg      | 2.63                          | 1.31   | 1.14    | 5.08  | 3.5                                       | 2.5                                  | 88                                | 2.2                               |
| Average           | 3.05                          | 1.44   | 1.21    | 5.70  | 2.8                                       | 2.1                                  | 88                                | 2.3                               |
| LSD (.05)         | .28                           | --     | .22     | .49   | .9                                        | .9                                   | 7                                 | .7                                |
| F entries         | 5.75**                        | 1.58   | 2.25*   | 2.44* | 5.37**                                    | 10.71**                              | 9.15**                            | 10.49**                           |
| CV (%)            | 6.5                           | 7.5    | 12.6    | 6.0   | 22.1                                      | 29.5                                 | 5.9                               | 21.0                              |

Notes:

- 1 = no weevil damage; 5 = some damage on most stem tips (overall damage was not severe)
- 1 = no visible anthracnose symptoms; 3 = moderately severe symptoms; 5 = severe symptoms
- 1 = most regrowth; 4 = least regrowth

Broadcast seeded at 22 lb/A on August 9, 1973  
Design: RCB with 4 replications of 5' x 16' plots



Alfalfa Variety Test No. 4  
Blacksburg, Va. 1974 data

| Entry        | Tons/acre of 12% moisture hay |        |         |       | Regrowth <sup>1/</sup><br>6-13-74 | Anthracnose <sup>2/</sup><br>8-15-74 | Est. %<br>ground cover<br>9-18-74 |
|--------------|-------------------------------|--------|---------|-------|-----------------------------------|--------------------------------------|-----------------------------------|
|              | 5-28-74                       | 7-9-74 | 8-26-74 | Total |                                   |                                      |                                   |
| WL 309       | 2.42                          | 1.47   | .97     | 4.85  | 2.0                               | 3.8                                  | 81                                |
| 123          | 2.15                          | 1.29   | .86     | 4.30  | 2.2                               | 3.3                                  | 89                                |
| WL 308       | 2.06                          | 1.29   | .94     | 4.29  | 2.5                               | 2.3                                  | 90                                |
| Apalachee    | 1.93                          | 1.31   | .94     | 4.18  | 1.0                               | 1.9                                  | 92                                |
| K1-5         | 2.10                          | 1.28   | .81     | 4.18  | 2.2                               | 3.0                                  | 79                                |
| 530          | 2.08                          | 1.22   | .86     | 4.17  | 2.2                               | 2.8                                  | 88                                |
| Titan        | 2.21                          | 1.23   | .72     | 4.16  | 4.2                               | 1.5                                  | 89                                |
| Team         | 2.02                          | 1.23   | .88     | 4.13  | 3.2                               | 2.5                                  | 89                                |
| RP 103       | 2.05                          | 1.20   | .82     | 4.07  | 2.8                               | 3.9                                  | 76                                |
| WL 306       | 2.01                          | 1.22   | .83     | 4.07  | 2.2                               | 2.6                                  | 91                                |
| Thor         | 2.02                          | 1.26   | .78     | 4.06  | 2.0                               | 3.6                                  | 88                                |
| Lancer       | 2.01                          | 1.23   | .79     | 4.03  | 3.2                               | 4.0                                  | 89                                |
| Williamsburg | 2.08                          | 1.11   | .79     | 4.00  | 2.2                               | 2.3                                  | 94                                |
| 520          | 1.95                          | 1.21   | .75     | 3.92  | 3.0                               | 4.1                                  | 80                                |
| D-69 Wa      | 1.74                          | 1.23   | .88     | 3.86  | 1.0                               | 2.2                                  | 95                                |
| WL 311       | 1.94                          | 1.12   | .73     | 3.79  | 1.8                               | 1.9                                  | 91                                |
| Anchor       | 1.88                          | 1.18   | .74     | 3.78  | 2.8                               | 3.3                                  | 86                                |
| WL 210       | 2.00                          | 1.08   | .65     | 3.73  | 3.8                               | 3.0                                  | 88                                |
| Exp. 219     | 1.96                          | 1.08   | .63     | 3.67  | 4.0                               | 3.4                                  | 91                                |
| Victoria     | 1.94                          | 1.05   | .67     | 3.66  | 4.5                               | 2.0                                  | 86                                |
| Du Puits     | 1.76                          | 1.12   | .74     | 3.62  | 1.0                               | 4.9                                  | 66                                |
| Tempo        | 1.69                          | 1.09   | .80     | 3.57  | 3.2                               | 3.2                                  | 90                                |
| D-69 Wb      | 1.53                          | 1.18   | .84     | 3.55  | 1.0                               | 1.5                                  | 92                                |





Alfa1fa Variety Test No. 4 (continued)

| Entry                      | Tons/acre of 12% moisture hay |        |         |        | Regrowth <sup>1/</sup><br>6-13-74 | Anthracnose <sup>2/</sup><br>8-15-74 | Est. %<br>ground cover<br>9-18-74 |
|----------------------------|-------------------------------|--------|---------|--------|-----------------------------------|--------------------------------------|-----------------------------------|
|                            | 5-28-74                       | 7-9-74 | 8-26-74 | Total  |                                   |                                      |                                   |
| 131                        | 1.72                          | 1.04   | .75     | 3.51   | 2.5                               | 3.8                                  | 89                                |
| WL 405                     | 1.68                          | 1.08   | .67     | 3.44   | 2.0                               | 3.0                                  | 88                                |
| Average                    | 1.96                          | 1.19   | .79     | 3.94   | 2.5                               | 3.0                                  | 87                                |
| LSD (.05)                  | .38                           | .18    | .16     | .63    | .7                                | 1.0                                  | 9                                 |
| F (entries)                | 1.95*                         | 3.03** | 2.99**  | 2.26** | 14.19**                           | 5.36**                               | 3.66**                            |
| CV (%)                     | 13.9                          | 11.0   | 14.4    | 11.6   | 21.0                              | 25.3                                 | 7.6                               |
| Lattice eff.<br>(% of RBD) | 126                           | 168    | 110     | 126    | 100                               | 106                                  | 102                               |

Notes:

1. 1 = most regrowth; 5 = least regrowth
2. 1 = no visible anthracnose symptoms; 5 = severe symptoms

Broadcast seeded April 16, 1973 at 20 lb/A

Experimental design: 5 x 5 lattice with 4 replications of 5' x 16' plots

Variety means are adjusted if efficiency of lattice design over RBD is greater than 105%



Alfalfa Variety Test No. 9

Orange, Va. 1974 data

| Entry                                    | Tons/acre 12% moisture hay |        |        |         |        | Recovery <sup>1/</sup> | Ground <sup>2/</sup><br>cover |
|------------------------------------------|----------------------------|--------|--------|---------|--------|------------------------|-------------------------------|
|                                          | 5-1-74                     | 6-4-74 | 7-8-74 | 8-27-74 | Total  | 5-13-74                | 9-27-74                       |
| WL 311                                   | 2.53                       | 1.42   | .90    | 1.89    | 6.74   | 2.0                    | 1.0                           |
| Titan                                    | 2.40                       | 1.37   | .73    | 1.93    | 6.42   | 8.8                    | 1.0                           |
| Team                                     | 2.39                       | 1.31   | .71    | 2.02    | 6.37   | 9.0                    | 1.2                           |
| WL 210                                   | 2.48                       | 1.30   | .75    | 1.63    | 6.17   | 7.2                    | 1.5                           |
| Apalachee                                | 2.17                       | 1.42   | .82    | 1.80    | 6.14   | 1.0                    | 2.2                           |
| Victoria                                 | 2.47                       | 1.23   | .65    | 1.71    | 5.98   | 9.0                    | 2.8                           |
| WL 308                                   | 2.27                       | 1.15   | .77    | 1.67    | 5.91   | 5.8                    | 2.5                           |
| Tempo                                    | 2.08                       | 1.36   | .79    | 1.72    | 5.89   | 5.5                    | 3.2                           |
| WL 309                                   | 2.09                       | 1.29   | .80    | 1.66    | 5.87   | 5.0                    | 1.5                           |
| D-69 Wa                                  | 2.03                       | 1.26   | .83    | 1.75    | 5.86   | 1.2                    | 2.5                           |
| K1-5                                     | 2.31                       | 1.30   | .71    | 1.48    | 5.84   | 5.0                    | 3.2                           |
| RP 103                                   | 2.19                       | 1.39   | .78    | 1.36    | 5.77   | 8.0                    | 2.5                           |
| WL 306                                   | 1.94                       | 1.32   | .80    | 1.67    | 5.76   | 2.5                    | 2.0                           |
| Williamsburg                             | 2.02                       | 1.25   | .73    | 1.77    | 5.70   | 3.2                    | 1.5                           |
| WL 405                                   | 1.95                       | 1.24   | .80    | 1.68    | 5.69   | 1.8                    | 1.8                           |
| 530                                      | 1.99                       | 1.27   | .81    | 1.62    | 5.65   | 2.5                    | 2.5                           |
| 520                                      | 2.04                       | 1.24   | .66    | 1.46    | 5.39   | 8.0                    | 2.8                           |
| Thor                                     | 2.04                       | 1.23   | .68    | 1.35    | 5.31   | 5.2                    | 3.0                           |
| 131                                      | 1.77                       | 1.23   | .63    | 1.46    | 5.18   | 5.8                    | 2.8                           |
| Anchor                                   | 1.83                       | 1.15   | .60    | 1.39    | 5.05   | 5.5                    | 4.0                           |
| Average                                  | 2.15                       | 1.29   | .75    | 1.65    | 5.83   | 5.1                    | 2.3                           |
| LSD (.05)                                | .32                        | .13    | .09    | .23     | .45    | 2.1                    | 1.1                           |
| F (entries)                              | 4.16**                     | 3.25** | 6.06** | 5.19**  | 8.39** | 12.90**                | 3.90**                        |
| CV (%)                                   | 10.8                       | 7.4    | 8.5    | 10.0    | 5.6    | 29.2                   | 36.4                          |
| Lattice eff.<br>(% of RBD) <sup>5/</sup> | 139                        | 117    | 115    | 103     | 163    | 103                    | 100                           |

Notes:

1. 1 = most regrowth; 9 = least regrowth
2. 1 = most ground cover; 6 = least ground cover
3. Broadcast seeded April 16, 1973, at 20 lb live seed/A
4. Experimental design: 4 x 5 rectangular lattice; 4 reps. of 5' x 15' plots
5. Variety means have been adjusted if efficiency of lattice design over RBD is greater than 105%



Alfalfa Variety Test No. 10  
Orange, Va.

| Entry            | Tons/acre of 12% hay |         |        |         |        | Recovery <sup>1/</sup> | Ground <sup>2/</sup><br>cover |
|------------------|----------------------|---------|--------|---------|--------|------------------------|-------------------------------|
|                  | 5-1-74               | 6-4-74  | 7-8-74 | 8-26-74 | Total  | 5-13-74                | 9-27-74                       |
| Team             | 2.08                 | 1.18    | .64    | 1.75    | 5.64   | 8.0                    | 3.5                           |
| Arc              | 2.12                 | 1.26    | .70    | 1.83    | 5.91   | 7.5                    | 1.0                           |
| Saranac          | 2.00                 | 1.22    | .69    | 1.51    | 5.41   | 5.2                    | 4.8                           |
| Beltsville 2-An4 | 2.11                 | 1.34    | .76    | 1.78    | 5.99   | 6.5                    | 1.0                           |
| Vernal           | 2.12                 | 1.28    | .68    | 1.49    | 5.58   | 8.0                    | 2.5                           |
| Beltsville 3-An4 | 1.93                 | 1.26    | .66    | 1.81    | 5.67   | 6.8                    | 2.0                           |
| Williamsburg     | 1.58                 | 1.17    | .63    | 1.66    | 5.03   | 4.2                    | 2.2                           |
| D-69 Wb          | 1.86                 | 1.18    | .74    | 1.73    | 5.51   | 1.2                    | 2.5                           |
| Weevlchek        | 1.94                 | 1.25    | .69    | 1.78    | 5.66   | 7.0                    | 2.0                           |
| Gladiator        | 2.11                 | 1.28    | .69    | 1.70    | 5.78   | 8.0                    | 2.2                           |
| Lancer           | 2.05                 | 1.30    | .70    | 1.46    | 5.51   | 3.5                    | 3.2                           |
| WL 307           | 2.05                 | 1.28    | .71    | 1.68    | 5.71   | 6.2                    | 1.2                           |
| Average          | 1.99                 | 1.25    | .69    | 1.68    | 5.62   | 6.0                    | 2.4                           |
| LSD (.05)        | --                   | --      | --     | --      | --     | 1.5                    | 1.2                           |
| F (entries)      | 1.40 NS              | 1.17 NS | .88 NS | 1.71 NS | .90 NS | 16.48**                | 7.28**                        |
| CV (%)           | 13.3                 | 7.8     | 11.7   | 11.7    | 9.3    | 17.2                   | 34.3                          |

Notes:

1. 1 = most regrowth; 9 = least regrowth
2. 1 = most ground cover; 6 = least ground cover
3. Broadcast planted April 16, 1973, at 20 lb. live seed/A
4. Experimental design: RBD; 4 reps. of 5' x 15' plots



# Alfalfa Variety Test No. 2

Warsaw, Va. 1974 data

| Entry             | Tons/acre of 12% moisture hay |         |         |         |       | 1973-74<br>Average | Weevil <sup>1/</sup><br>damage<br>4-30-74 | Regrowth <sup>2/</sup><br>5-23-74 | Anthracnose <sup>3/</sup><br>8-21-74 |
|-------------------|-------------------------------|---------|---------|---------|-------|--------------------|-------------------------------------------|-----------------------------------|--------------------------------------|
|                   | 5-14-74                       | 6-18-74 | 7-18-74 | 8-26-74 | Total |                    |                                           |                                   |                                      |
| Saranac           | 2.72                          | 2.13    | 1.06    | 1.36    | 7.26  | 6.58               | 3.0                                       | 2.2                               | 2.9                                  |
| JB-2              | 2.66                          | 2.10    | .95     | 1.50    | 7.16  | 6.62               | 2.8                                       | 2.8                               | 1.3                                  |
| Team              | 2.72                          | 2.00    | .85     | 1.61    | 7.13  | 6.47               | 2.2                                       | 4.0                               | 1.5                                  |
| K1-10             | 2.77                          | 1.89    | .86     | 1.62    | 7.11  | 6.57               | 3.0                                       | 3.0                               | 2.6                                  |
| Arc (Belts. 71)   | 2.75                          | 1.92    | .86     | 1.54    | 7.04  | 6.42               | 1.5                                       | 3.5                               | 1.3                                  |
| Beltsville 2-An4  | 2.61                          | 1.93    | 1.05    | 1.45    | 7.03  | 6.40               | 2.8                                       | 2.5                               | 1.2                                  |
| 520               | 2.66                          | 1.94    | .99     | 1.48    | 7.03  | 6.34               | 3.0                                       | 3.5                               | 2.7                                  |
| MSHp6F-An4w4Sb2w2 | 2.61                          | 1.96    | .99     | 1.43    | 6.97  | 6.72               | 1.8                                       | 3.0                               | 1.2                                  |
| K0-203            | 2.53                          | 2.10    | .89     | 1.45    | 6.97  | 6.21               | 3.0                                       | 2.8                               | 3.4                                  |
| WL 308            | 2.61                          | 1.81    | 1.07    | 1.41    | 6.93  | 6.28               | 2.8                                       | 3.0                               | 2.3                                  |
| Williamsburg      | 2.51                          | 1.90    | 1.15    | 1.33    | 6.92  | 6.35               | 2.8                                       | 2.0                               | 3.0                                  |
| Gemini            | 2.57                          | 1.95    | .87     | 1.52    | 6.91  | 6.11               | 3.8                                       | 2.0                               | 2.2                                  |
| MnP-B1 Syn 2      | 2.52                          | 1.66    | 1.04    | 1.57    | 6.85  | 6.02               | 3.5                                       | 3.0                               | 2.7                                  |
| Weevilchek        | 2.36                          | 1.99    | .95     | 1.57    | 6.84  | 6.22               | 2.8                                       | 3.2                               | 1.9                                  |
| Beltsville 1-An4  | 2.59                          | 1.89    | 1.01    | 1.39    | 6.81  | 6.16               | 2.8                                       | 1.5                               | 1.4                                  |
| Beltsville 3-An4  | 2.42                          | 1.84    | .90     | 1.59    | 6.76  | 6.24               | 2.5                                       | 4.0                               | 1.4                                  |
| K0-8 (G777)       | 2.63                          | 1.84    | 1.01    | 1.27    | 6.75  | 6.34               | 3.2                                       | 2.8                               | 3.4                                  |
| Tempo             | 2.42                          | 1.79    | 1.01    | 1.50    | 6.73  | 6.05               | 3.2                                       | 2.5                               | 2.9                                  |
| Cherokee          | 2.37                          | 1.91    | .96     | 1.46    | 6.72  | 6.08               | 3.0                                       | 3.0                               | 1.8                                  |
| Apalachiee        | 2.35                          | 1.92    | 1.07    | 1.40    | 6.71  | 6.08               | 3.5                                       | 1.2                               | 2.0                                  |
| Glacier           | 2.49                          | 1.85    | .92     | 1.39    | 6.64  | 6.02               | 3.2                                       | 1.8                               | 3.2                                  |
| Vernal            | 2.42                          | 1.90    | .89     | 1.43    | 6.64  | 6.12               | 3.2                                       | 4.2                               | 2.5                                  |





Alfalfa Variety Test No. 2 (continued)

| Entry                      | Tons/acre of 12% moisture hay |         |         |         | 1973-74<br>Average | Weevil <sup>1/</sup><br>damage<br>4-30-74 | Regrowth <sup>2/</sup><br>5-23-74 | Anthracnose <sup>3/</sup><br>8-21-74 |
|----------------------------|-------------------------------|---------|---------|---------|--------------------|-------------------------------------------|-----------------------------------|--------------------------------------|
|                            | 5-14-74                       | 6-18-74 | 4-18-74 | 8-26-74 |                    |                                           |                                   |                                      |
| WL 306                     | 2.36                          | 1.82    | 1.16    | 1.18    | 6.16               | 3.8 1.87                                  | 2.8                               | 3.1 2.38                             |
| WL 405                     | 2.34                          | 1.71    | 1.05    | 1.39    | 5.93               | 4.0 2.67                                  | 2.5                               | 2.2 1.69                             |
| Du Puits                   | 2.34                          | 1.88    | .97     | 1.28    | 5.87               | 3.0 2.1                                   | 1.2                               | 3.0 2.31                             |
| Anchor                     | 2.40                          | 1.80    | .92     | 1.35    | 5.80               | 2.5 1.67                                  | 2.2                               | 2.6 2.00                             |
| 123                        | 2.23                          | 1.73    | .80     | 1.67    | 5.86               | 3.0 2.2                                   | 4.8                               | 2.4 1.86                             |
| WL 307                     | 2.43                          | 1.58    | .99     | 1.29    | 5.69               | 2.2 1.49                                  | 3.0                               | 1.9 1.46                             |
| Titan                      | 2.41                          | 1.56    | .87     | 1.49    | 6.04               | 2.5 1.67                                  | 4.2                               | 1.5 1.15                             |
| K0-202                     | 2.40                          | 1.78    | .63     | 1.45    | 5.74               | 3.0                                       | 4.5                               | 3.5                                  |
| Scout                      | 2.22                          | 1.63    | .97     | 1.46    | 5.64               | 3.2 2.13                                  | 3.0                               | 2.3 1.77                             |
| MnP-A2 Syn 3               | 2.14                          | 1.40    | .85     | 1.56    | 5.28               | 3.2                                       | 4.0                               | 2.3                                  |
| WL 450                     | 1.86                          | 1.41    | .99     | 1.48    | 4.91               | 5.0 1.54                                  | 2.0                               | 2.0 1.54                             |
| Florida 66                 | 1.77                          | 1.39    | 1.02    | 1.59    | 4.88               | 4.8 3.10                                  | 2.2                               | 1.9 1.46                             |
| K1-610                     | 1.64                          | 1.25    | .93     | 1.48    | 4.42               | 4.2                                       | 1.8                               | 2.6                                  |
| K9-625                     | 1.22                          | 1.14    | .84     | 1.37    | 3.58               | 4.8                                       | 2.2                               | 2.4                                  |
| Average                    | 2.39                          | 1.79    | .95     | 1.45    | 5.95               | 3.1                                       | 2.8                               | 2.3                                  |
| LSD (.05)                  | .26                           | .25     | .11     | .17     | .45                | .7                                        | .7                                | 1.3                                  |
| F (entries)                | 11.73**                       | 6.54**  | 5.07**  | 3.05**  | 11.71**            | 9.06**                                    | 12.96**                           | 2.20**                               |
| CV (%)                     | 7.8                           | 10.2    | 8.6     | 8.4     | 4.9                | 16.1                                      | 17.8                              | 41.9                                 |
| Lattice eff.<br>(% of RBD) | 161                           | 101     | 190     | 157     | 170                | 103                                       | 104                               | 110                                  |

Notes:

- 1 = very slight weevil damage; 3 = about 50% of stem tips damaged; 5 = 75-90% of stem tips damaged
- 1 = most regrowth; 5 = least regrowth
- 1 = no visible anthracnose symptoms; 3 = 2 or 3 plants with dead stems; 5 = 7 or more plants with dead stems

Broadcast planted March 30, 1972; Experimental design: 6 x 6 lattice with 4 reps. of 4 1/2' x 18' plots  
Variety means have been adjusted if efficiency of lattice design over RBD is greater than 105%







ALFALFA VARIETY YIELD TRIALS  
WEST VIRGINIA 1972-1974

Hay yields (12% moisture) of 22 alfalfa varieties  
at Morgantown and Point Pleasant, W. Va.

| Morgantown     |                 |              | Point Pleasant |           |              |
|----------------|-----------------|--------------|----------------|-----------|--------------|
| Variety        | Tons/Acre       |              | Variety        | Tons/Acre |              |
|                | 1974            | 1972-74 Ave. |                | 1974      | 1972-74 Ave. |
| ATRA 55        | 6.31            | 5.68         | ATRA 55        | 7.95      | 5.43         |
| Thor           | 6.33            | 5.59         | WL 215         | 7.93      | 5.36         |
| WL 215         | 6.47            | 5.53         | Anchor         | 7.77      | 5.26         |
| Vernal         | 6.15            | 5.47         | Titan          | 7.69      | 5.24         |
| 520            | 5.97            | 5.44         | Thor           | 7.63      | 5.17         |
| Iroquois       | 5.97            | 5.44         | Weevlchek      | 7.63      | 5.15         |
| Titan          | 5.87            | 5.42         | 123            | 7.39      | 5.10         |
| Saranac        | 6.08            | 5.42         | Tempo          | 7.52      | 5.06         |
| Tempo          | 5.92            | 5.39         | WL 202         | 7.53      | 5.05         |
| 123            | 6.31            | 5.39         | Team           | 7.36      | 4.98         |
| 530            | 6.35            | 5.37         | Iroquois       | 7.23      | 4.95         |
| Weevlchek      | 6.12            | 5.36         | Saranac        | 7.19      | 4.94         |
| Warrior        | 6.17            | 5.35         | 520            | 7.14      | 4.91         |
| Bonus          | 6.27            | 5.33         | Bonus          | 6.99      | 4.86         |
| Team           | 5.90            | 5.32         | Vernal         | 6.93      | 4.84         |
| WL 202         | 6.05            | 5.32         | WL 308         | 7.47      | 4.83         |
| Anchor         | 6.28            | 5.27         | 153            | 7.10      | 4.82         |
| Kanza          | 6.00            | 5.25         | 530            | 6.92      | 4.78         |
| WL 308         | 6.01            | 5.20         | Warrior        | 6.74      | 4.78         |
| 153            | 5.82            | 5.15         | Victoria       | 7.41      | 4.70         |
| Scout          | 5.86            | 5.12         | Scout          | 7.08      | 4.65         |
| Victoria       | 5.28            | 4.99         | Kanza          | 6.60      | 4.14         |
| Average        | 6.07            | 5.35         | Average        | 7.33      | 4.95         |
| "F" Entries    | 1.73 (P>F=0.06) | 2.22*        | "F" Entries    | 2.30*     | 2.96*        |
| L.S.D. (P=.05) | 0.55            | 0.30         | L.S.D. (P=.05) | 0.69      | 0.57         |
| C.V., %        | 5.5             | 5.9          | C.V., %        | 6.6       | 14.1         |

Supervisor: John A. Balasko  
 Soil: Morgantown, Wharton-Cookport silt loam  
 Point Pleasant, Wheeling silt loam  
 Seeded: Morgantown, spring 1971;  
 Point Pleasant, fall 1971  
 Seeding Method: Broadcast  
 Seeding rate: 16 lbs./A  
 Design: Randomized block  
 Plot Size: 5 x 23 feet  
 Replications: Morgantown 3, Point Pleasant 4  
 Number of cuts: 3 in 1972 and 1973; 4 in 1974









1974 Data from  
Field Performance Test of Anthracnose Resistant  
Selections and Check Varieties of Alfalfa,  
Nonirrigated Plots, Beltsville, Maryland

Broadcast plots 5' by 16'. Harvest strip 3' by 16'.  
Randomized block, 3 replications.

Seeded and irrigated: 5/8/70.

Limed with 3,000 lb/acre dolomitic limestone and  
fertilized with 1,000 lb/acre 0-10-20 with borax.

Rate of seeding: 18 lb/acre germinable seed.

Previous crop: Spaced alfalfa nursery overseeded with  
red fescue.

Soil type: Matapeake silt loam.

Annual fertilizer: 1,000 lb/acre 0-10-20 with borax.

| Entry            | Forage yield <sup>1</sup> |      |      |      |       | Estimated % weeds <sup>2</sup> |     |      |      |  | Estimated % cover <sup>2</sup> |     |      |      |  |
|------------------|---------------------------|------|------|------|-------|--------------------------------|-----|------|------|--|--------------------------------|-----|------|------|--|
|                  | Tons/acre at 12% moisture |      |      |      |       |                                |     |      |      |  |                                |     |      |      |  |
|                  | 6/5                       | 7/8  | 8/13 | 9/16 | Total | 6/5                            | 7/8 | 8/13 | 9/16 |  | 6/5                            | 7/8 | 8/13 | 9/16 |  |
| MSHp6F-An3W3     | 3.22                      | 1.80 | 0.90 | 0.93 | 6.85  | 8                              | 6   | 4    | 2    |  | 82                             | 85  | 72   | 68   |  |
| MSHp6F-An2W2     | 2.75                      | 1.54 | 0.83 | 0.86 | 5.98  | 8                              | 22  | 5    | 10   |  | 87                             | 63  | 55   | 42   |  |
| ARS-2            | 2.58                      | 0.95 | 0.51 | 1.05 | 5.09  | 47                             | 87  | 43   | 70   |  | 45                             | 13  | 20   | 13   |  |
| Team             | 2.64                      | 1.17 | 0.53 | 0.86 | 5.20  | 53                             | 82  | 45   | 62   |  | 38                             | 20  | 25   | 13   |  |
| MSB-CW5An3       | 2.60                      | 1.32 | 0.72 | 0.91 | 5.55  | 18                             | 43  | 9    | 18   |  | 78                             | 50  | 42   | 43   |  |
| MSB-CW5          | 2.55                      | 1.38 | 0.77 | 0.91 | 5.61  | 16                             | 33  | 9    | 10   |  | 75                             | 57  | 60   | 41   |  |
| Cherokee         | 2.58                      | 1.28 | 0.58 | 0.83 | 5.27  | 40                             | 77  | 27   | 43   |  | 50                             | 27  | 30   | 22   |  |
| Beltsville 1-An3 | 1.22                      | 0.73 | 0.26 | 1.03 | 3.24  | 89                             | 99  | 80   | 91   |  | 6                              | 3   | 2    | 3    |  |
| Glacier          | 1.76                      | 0.92 | 0.26 | 0.98 | 3.92  | 98                             | 97  | 90   | 94   |  | 3                              | 5   | 4    | 3    |  |
| Beltsville 2-An3 | 2.58                      | 1.57 | 0.80 | 0.90 | 5.85  | 4                              | 18  | 5    | 7    |  | 83                             | 73  | 57   | 55   |  |
| Saranac          | 2.60                      | 1.35 | 0.58 | 0.85 | 5.38  | 35                             | 50  | 12   | 25   |  | 57                             | 38  | 42   | 28   |  |
| DuPuits          | 1.60                      | 0.72 | 0.30 | 1.07 | 3.69  | 87                             | 99  | 84   | 96   |  | 13                             | 2   | 2    | 2    |  |
| MSA-CW3An3       | 2.83                      | 1.63 | 0.84 | 0.87 | 6.17  | 11                             | 18  | 6    | 8    |  | 78                             | 68  | 55   | 47   |  |
| MSA-CW3          | 3.10                      | 1.72 | 0.95 | 0.97 | 6.74  | 7                              | 13  | 4    | 4    |  | 82                             | 77  | 67   | 53   |  |
| D69              | 1.36                      | 0.81 | 0.22 | 1.11 | 3.50  | 98                             | 99  | 94   | 98   |  | 2                              | 1   | 1    | 1    |  |
| D59              | 1.07                      | 0.63 | 0.18 | 1.07 | 2.95  | 96                             | 99  | 91   | 98   |  | 2                              | 1   | 1    | 1    |  |
| Bonanza          | 2.41                      | 1.38 | 0.83 | 1.00 | 5.62  | 60                             | 73  | 33   | 27   |  | 40                             | 28  | 35   | 30   |  |
| Moapa            | 1.44                      | 0.94 | 0.48 | 0.98 | 3.84  | 97                             | 94  | 43   | 73   |  | 5                              | 8   | 15   | 12   |  |
| Williamsburg     | 2.22                      | 1.09 | 0.52 | 1.11 | 4.94  | 73                             | 88  | 48   | 82   |  | 25                             | 12  | 23   | 15   |  |
| Weevlchek        | 2.56                      | 1.49 | 0.78 | 0.91 | 5.74  | 7                              | 18  | 8    | 13   |  | 83                             | 75  | 47   | 40   |  |
| LSD (.05)        | 0.39                      | 0.24 | 0.18 | 0.23 | 0.17  | 19                             | 16  | 18   | 18   |  | 16                             | 15  | 12   | 14   |  |
| CV (%)           | 10                        | 12   | 19   | 14   | 16    | 24                             | 16  | 29   | 24   |  | 21                             | 26  | 23   | 31   |  |

<sup>1</sup>Yield including weeds.

<sup>2</sup>Visual estimates.



1974 Data from  
Field Performance Test of Anthracnose Resistant  
Selections and Check Varieties of Alfalfa  
Irrigated Plots<sup>1</sup>, Beltsville, Maryland

Broadcast plots 5' by 16'.

Randomized block.

Seeded and irrigated 5/8/70.

limed with 3,000 lb/acre dolomitic limestone and  
fertilized with 1,000 lb/acre 0-10-20 with borax.

Rate of seeding: 18 lb/acre germinable seed.

Previous crop: Spaced alfalfa nursery overseeded with  
red fescue.

Soil type: Matapeake silt loam.  
Annual fertilizer: 1,000 lb/acre 0-10-20.

| Entry            | Tons/acre at 12% moisture |      |      |      |       | Forage yield <sup>2</sup> |     |      |      |  | Estimated % weeds <sup>3</sup> |     |      |      |    | Estimated % cover <sup>3</sup> |     |      |      |  |
|------------------|---------------------------|------|------|------|-------|---------------------------|-----|------|------|--|--------------------------------|-----|------|------|----|--------------------------------|-----|------|------|--|
|                  | 6/5                       | 7/8  | 8/13 | 9/16 | Total | 6/5                       | 7/8 | 8/13 | 9/16 |  | 6/5                            | 7/8 | 8/13 | 9/16 |    | 6/5                            | 7/8 | 8/13 | 9/16 |  |
| MSHp6F-An3W3     | 3.01                      | 1.67 | 0.74 | 0.94 | 6.36  | 8                         | 10  | 5    | 6    |  | 83                             | 74  | 56   | 58   |    | 78                             | 63  | 48   | 48   |  |
| MSHp6F-An2W2     | 2.81                      | 1.60 | 0.71 | 0.94 | 6.06  | 10                        | 22  | 15   | 15   |  |                                |     |      |      |    | 27                             | 8   | 8    | 4    |  |
| ARS-2            | 2.14                      | 1.00 | 0.43 | 1.07 | 4.64  | 60                        | 90  | 65   | 85   |  |                                |     |      |      |    |                                |     |      |      |  |
| Team             | 1.97                      | 1.38 | 0.58 | 0.86 | 4.79  | 25                        | 52  | 13   | 28   |  |                                | 57  | 35   | 28   | 18 |                                |     |      |      |  |
| MSB-CW5An3       | 2.66                      | 1.66 | 0.72 | 0.98 | 6.02  | 4                         | 11  | 5    | 6    |  | 80                             | 74  | 48   | 53   |    | 58                             | 47  | 46   | 55   |  |
| MSB-CW5          | 2.30                      | 1.42 | 0.75 | 1.02 | 5.49  | 25                        | 38  | 11   | 23   |  |                                | 58  | 47   | 46   | 55 |                                |     |      |      |  |
| Cherokee         | 2.38                      | 1.26 | 0.63 | 1.00 | 5.27  | 47                        | 73  | 40   | 47   |  | 40                             | 23  | 25   | 25   |    |                                |     |      |      |  |
| Beltsville 1-An3 | 1.39                      | 0.74 | 0.22 | 0.88 | 3.23  | 99                        | 99  | 93   | 99   |  | 2                              | 1   | 1    | 1    | 1  |                                |     |      |      |  |
| Glacier          | 1.84                      | 0.85 | 0.30 | 0.84 | 3.83  | 94                        | 98  | 62   | 94   |  | 8                              | 4   | 5    | 4    |    |                                |     |      |      |  |
| Beltsville 2-An3 | 2.80                      | 1.73 | 0.87 | 0.94 | 6.34  | 5                         | 12  | 5    | 3    |  | 90                             | 77  | 60   | 60   |    |                                |     |      |      |  |
| Saranac          | 2.49                      | 1.83 | 0.74 | 0.79 | 5.85  | 18                        | 30  | 6    | 13   |  | 67                             | 50  | 38   | 32   |    |                                |     |      |      |  |
| DuPuits          | 1.88                      | 0.74 | 0.29 | 0.76 | 3.67  | 89                        | 97  | 60   | 89   |  | 19                             | 6   | 7    | 3    |    |                                |     |      |      |  |
| MSA-CW3An3       | 2.92                      | 1.60 | 0.80 | 0.96 | 6.28  | 15                        | 31  | 13   | 12   |  | 78                             | 57  | 48   | 55   |    |                                |     |      |      |  |
| MSA-CW3          | 2.16                      | 1.60 | 0.81 | 1.03 | 5.60  | 13                        | 31  | 8    | 11   |  | 78                             | 58  | 52   | 50   |    |                                |     |      |      |  |
| D69              | 0.76                      | 0.75 | 0.31 | 1.09 | 2.91  | 98                        | 99  | 95   | 98   |  |                                | 3   | 3    | 2    | 2  |                                |     |      |      |  |
| D59              | 1.36                      | 0.67 | 0.26 | 1.03 | 3.32  | 98                        | 99  | 96   | 96   |  |                                | 4   | 1    | 2    | 2  |                                |     |      |      |  |
| Bonanza          | 2.21                      | 1.35 | 0.73 | 0.82 | 5.11  | 47                        | 55  | 11   | 12   |  | 48                             | 38  | 42   | 32   |    |                                |     |      |      |  |
| Moapa            | 1.85                      | 0.97 | 0.46 | 0.88 | 4.16  | 98                        | 92  | 62   | 80   |  |                                | 9   | 12   | 8    |    |                                |     |      |      |  |
| Williamsburg     | 2.15                      | 1.14 | 0.52 | 0.88 | 4.69  | 70                        | 77  | 45   | 52   |  |                                | 18  | 20   | 18   |    |                                |     |      |      |  |
| Weevlchek        | 3.00                      | 1.63 | 0.74 | 0.95 | 6.32  | 11                        | 22  | 5    | 6    |  | 80                             | 70  | 55   | 55   |    |                                |     |      |      |  |
| LSD (.05)        | 0.54                      | 0.27 | 0.14 | 0.20 | 0.17  | 22                        | 23  | 19   | 20   |  | 18                             | 18  | 9    | 14   |    |                                |     |      |      |  |
| CV (%)           | 15                        | 13   | 15   | 13   | 16    | 28                        | 25  | 32   | 28   |  | 23                             | 30  | 19   | 28   |    |                                |     |      |      |  |

<sup>1</sup>Irrigated 1970-73 seasons; no irrigation in 1974.

<sup>2</sup>Yield including weeds.

<sup>3</sup>Visual estimates.



1974 Data from  
1972 Alfalfa Anthracnose and Alfalfa Weevil Field Study  
Beltsville, Maryland

Broadcast plots 5' by 16'.  
Split plot, 4 replications.  
Seeded: 5/13/72.  
Limed with 2,000 lb/acre dolomitic limestone and  
fertilized with 1,000 lb/acre 0-10-20 with  
.34% borax prior to seeding.  
Herbicide: 3 lb/acre Vernam.  
Rate of seeding: 18 lb/acre germinable seed.

Previous crop: Spaced alfalfa nursery overseeded with  
red fescue.  
Soil type: Keyport silt loam.  
Annual fertilizer: 1,000 lb/acre 0-10-20 with borax,  
split application - prior to  
spring growth and after 3rd  
harvest.

| Entry               | Forage yield <sup>1</sup> |                         |      |      |      | Estimated % weeds <sup>2</sup> |     |      |      |  | Estimated % cover <sup>2</sup> |     |      |  |  |
|---------------------|---------------------------|-------------------------|------|------|------|--------------------------------|-----|------|------|--|--------------------------------|-----|------|--|--|
|                     | Tons/acre at 12% moisture | 6/6 7/9 8/14 9/17 Total |      |      |      | 6/3                            | 7/9 | 8/14 | 9/17 |  | 6/3                            | 7/9 | 8/14 |  |  |
| Beltsville 71 Syn 2 | 3.09                      | 2.10                    | 1.07 | 1.24 | 7.50 | 2                              | 3   | 0    | 0    |  | 95                             | 92  | 89   |  |  |
| MSHp6F-An4W4-Sb2W2  | 3.12                      | 2.00                    | 1.08 | 1.26 | 7.41 | 3                              | 1   | 0    | 0    |  | 90                             | 92  | 89   |  |  |
| MSHp6F-An3W3        | 2.97                      | 2.00                    | 1.08 | 1.20 | 7.35 | 5                              | 2   | 1    | 1    |  | 86                             | 88  | 92   |  |  |
| MSHp6F-An2W2        | 3.35                      | 2.03                    | 1.12 | 1.20 | 7.70 | 2                              | 1   | 0    | 1    |  | 88                             | 89  | 92   |  |  |
| MSHp6F              | 3.27                      | 2.02                    | 0.98 | 1.08 | 7.25 | 6                              | 4   | 2    | 1    |  | 91                             | 80  | 78   |  |  |
| Team                | 3.49                      | 1.87                    | 0.96 | 1.09 | 7.46 | 11                             | 7   | 6    | 6    |  | 88                             | 78  | 74   |  |  |
| Beltsville 1-An4    | 3.11                      | 1.96                    | 1.24 | 1.04 | 7.35 | 9                              | 9   | 7    | 10   |  | 86                             | 76  | 76   |  |  |
| Glacier             | 2.82                      | 1.38                    | 0.70 | 0.98 | 5.88 | 34                             | 55  | 59   | 66   |  | 60                             | 30  | 26   |  |  |
| Beltsville 2-An4    | 3.06                      | 2.00                    | 1.06 | 1.17 | 7.29 | 3                              | 6   | 2    | 2    |  | 95                             | 82  | 84   |  |  |
| Saranac             | 3.17                      | 1.62                    | 0.76 | 0.94 | 6.49 | 32                             | 36  | 35   | 48   |  | 64                             | 46  | 40   |  |  |
| Beltsville 3-An4    | 3.16                      | 2.04                    | 1.02 | 1.16 | 7.38 | 5                              | 6   | 5    | 4    |  | 85                             | 81  | 82   |  |  |
| Vernal              | 2.88                      | 1.59                    | 0.78 | 0.96 | 6.21 | 32                             | 36  | 38   | 24   |  | 65                             | 48  | 55   |  |  |
| NCW18b Syn 1        | 3.15                      | 1.86                    | 1.14 | 1.17 | 7.32 | 4                              | 3   | 1    | 1    |  | 82                             | 90  | 90   |  |  |
| NCW20a Syn 1        | 3.45                      | 2.17                    | 1.02 | 1.22 | 7.86 | 7                              | 7   | 6    | 2    |  | 92                             | 84  | 84   |  |  |
| MnP-B1 Syn 2        | 3.22                      | 1.90                    | 0.96 | 0.95 | 7.03 | 15                             | 15  | 10   | 10   |  | 80                             | 76  | 71   |  |  |
| MnP-A2 Syn 3        | 2.80                      | 1.81                    | 0.96 | 1.03 | 6.60 | 21                             | 14  | 10   | 8    |  | 70                             | 81  | 81   |  |  |
| Cherokee            | 2.94                      | 1.70                    | 0.94 | 1.00 | 6.58 | 19                             | 25  | 25   | 35   |  | 64                             | 55  | 61   |  |  |
| Williamsburg        | 2.95                      | 1.78                    | 0.90 | 0.98 | 6.61 | 25                             | 21  | 22   | 25   |  | 71                             | 60  | 62   |  |  |
| LSD (.05)           | ns                        | 0.25                    | 0.10 | 0.10 | 0.54 | 14                             | 14  | 15   | 15   |  | 15                             | 12  | 13   |  |  |
| CV (%)              | 11                        | 9                       | 7    | 6    | 11   | 77                             | 72  | 88   | 77   |  | 13                             | 11  | 13   |  |  |

<sup>1</sup>Yield including weeds.  
<sup>2</sup>Visual estimates.









# Northeast Regional Evaluation of Alfalfa Varieties (1969 - 1974)

Under Auspices of Northeast Forage Crops Technical Committee, NE-74.

## 1969 Northeast Regional Alfalfa Trial Series

1972 Northeast Regional Alfalfa Trial Series C

| <u>Established:</u> | <u>Yield Data:</u> | <u>Established:</u> | <u>Yield Data:</u> |
|---------------------|--------------------|---------------------|--------------------|
| Clarksville, Md.    | 69, 70, 71         | Storrs, Conn.       | 73, 74             |
| Landisville, Pa.    | 69, 70, 71, 72     | Durham, N.H.        |                    |
| Rock Springs, Pa.   | 69, 70, 71, 72     | Ithaca, N.Y. (Hel.) | 73, 74             |
| Storrs, Conn.       | 70, 71             |                     |                    |
| Ithaca, N.Y. (Ket.) | 69, 70, 71, 72     |                     |                    |
| Ithaca, N.Y. (McG.) | 69, 70, 71, 72     |                     |                    |

## 1970 Northeast Regional Alfalfa Trial Series

1973 Northeast Regional Alfalfa Trial Series A & B

| <u>Established:</u>    | <u>Yield Data:</u> | <u>Established:</u> | <u>Yield Data:</u> |
|------------------------|--------------------|---------------------|--------------------|
| Clarksville, Md.       | 71                 | Clarksville, Md.    | 74                 |
| Landisville, Pa.       | 70, 71, 72, 73     | Landisville, Pa.    | 74                 |
| Rock Springs, Pa.      | 70, 71, 72, 73     | Rock Springs, Pa.   | 73, 74             |
| Storrs, Conn.          | 70, 71             | Ithaca, N.Y. (NK)   | 73, 74             |
| Ithaca, N.Y. (NK)      | 70, 71, 72         | Ithaca, N.Y. (McG.) | 73, 74             |
| Ithaca, N.Y. (Hel. #2) | 70, 71, 72, 73     | Storrs, Conn.       | 74                 |

## 1971 Northeast Regional Alfalfa Trial Series

1974 Northeast Regional Alfalfa Trial Series A & B

| <u>Established:</u> | <u>Yield Data:</u> | <u>Established:</u>            | <u>Yield Data:</u> |
|---------------------|--------------------|--------------------------------|--------------------|
| Landisville, Pa.    | 72, 73, 74         | Landisville, Pa.               |                    |
| Rock Springs, Pa.   | 72, 73, 74         | Rock Springs, Pa.              |                    |
| Ithaca, N.Y. (Ket.) | 72, 73, 74         | Rock Springs, Pa. (Past. Lab.) | 74                 |
| Ithaca, N.Y. (McG.) | 72, 73, 74         | Ithaca, N.Y. (McG.)            | 74                 |
|                     |                    | Ithaca, N.Y. (Hel.)            |                    |

## 1972 Northeast Regional Alfalfa Trial Series A & B

| <u>Established:</u>    | <u>Yield Data:</u> |
|------------------------|--------------------|
| Landisville, Pa.       | 73, 74             |
| Rock Springs, Pa.      | 73, 74             |
| Ithaca, N.Y. (Hel. #3) | 72, 73, 74         |
| Ithaca, N.Y. (Sny.)    | 72, 73, 74         |



# 1971 Northeast Regional Alfalfa Trial Series

## Harvest Management Systems and Yield Levels

|  | Landisville<br>Pa. | Rock Springs<br>Pa. | Ithaca, N.Y.<br>(Ketola) | Ithaca, N.Y.<br>(McGowan) |
|--|--------------------|---------------------|--------------------------|---------------------------|
|--|--------------------|---------------------|--------------------------|---------------------------|

Seeding year yields not taken in 1971 - very dry summer.

|           |            |            |            |            |
|-----------|------------|------------|------------|------------|
| 1972      | 6/5<br>45  | 6/13<br>50 | 6/8<br>42  | 6/6<br>42  |
| 1st       | 7/20<br>62 | 8/2<br>61  | 7/20<br>42 | 7/18<br>43 |
| Hvst. Yr. | 9/20       | 10/2       | 8/31       | 8/30       |
| 1973      | 6/5<br>49  | 6/14<br>45 | 6/6<br>43  | 6/5<br>42  |
| 2nd       | 7/24<br>49 | 7/29<br>52 | 7/19<br>42 | 7/17<br>43 |
| Hvst. Yr. | 9/11       | 9/19       | 8/30       | 8/29       |
| 1974      | 6/3<br>35  | 6/6<br>50  | 6/4<br>42  | 6/6<br>42  |
| 3rd       | 7/8<br>43  | 7/26<br>59 | 7/16<br>50 | 7/18<br>49 |
| Hvst. Yr. | 8/20       | 9/23       | 9/4        | 9/5        |

### Ave. Yield

|      |      |      |      |      |
|------|------|------|------|------|
| 1972 | 2.94 | 4.10 | 4.48 | 5.00 |
| 1973 | 3.16 | 4.79 | 4.63 | 5.40 |
| 1974 | 3.40 | 3.63 | 3.75 | 5.15 |



1971 Northeast Regional Alfalfa Trial Series  
1972-74 Summary

(Data = Tons/Acre @ 12% M)

| Rand.<br>No. | Entry            | Origin | Landisville<br>Pa. |      |           | Rock Springs<br>Pa. |      |           | Ithaca, N.Y.<br>Ketola |      |           | Ithaca, N.Y.<br>McGowan |      |           |
|--------------|------------------|--------|--------------------|------|-----------|---------------------|------|-----------|------------------------|------|-----------|-------------------------|------|-----------|
|              |                  |        | $\bar{X}$          | (72) | (73) (74) | $\bar{X}$           | (72) | (73) (74) | $\bar{X}$              | (72) | (73) (74) | $\bar{X}$               | (72) | (73) (74) |
| 1            | K0-203           | NK     | 3.01               | (15) | (18)      | 4.05                | (20) | (13) (14) | 4.38                   | (10) | (4) (10)  | 5.35                    | (9)  | (4) (3)   |
| 2            | K9-100           | NK     | 3.17               | (8)  | (9)       | 4.20                | (12) | (10) (6)  | 4.37                   | (3)  | (8) (13)  | 5.13                    | (13) | (13) (14) |
| 3            | K0-8             | NK     | 2.92               | (20) | (13)      | 4.01                | (17) | (17) (17) | 4.20                   | (13) | (15) (16) | 5.08                    | (18) | (12) (15) |
| 4            | 520              | AT     | 2.92               | (7)  | (19)      | 4.23                | (9)  | (8) (4)   | 4.37                   | (6)  | (9) (8)   | 5.28                    | (14) | (9) (10)  |
| 5            | 530              | AT     | 3.46               | (3)  | (2) (8)   | 4.31                | (7)  | (2) (7)   | 4.36                   | (10) | (9) (5)   | 5.35                    | (3)  | (18) (3)  |
| 6            | WL-215           | WL     | 3.20               | (15) | (7)       | 4.27                | (12) | (5) (3)   | 4.24                   | (19) | (17) (8)  | 5.03                    | (18) | (15) (17) |
| 7            | WL-217           | WL     | 3.26               | (5)  | (9)       | 4.35                | (3)  | (6) (1)   | 4.34                   | (12) | (13) (6)  | 5.17                    | (10) | (7) (12)  |
| 8            | WL-307           | WL     | 3.37               | (10) | (3)       | 4.14                | (16) | (14) (4)  | 4.13                   | (17) | (19) (18) | 5.04                    | (16) | (16) (16) |
| 9            | WL-309           | WL     | 3.34               | (2)  | (6)       | 4.34                | (6)  | (1) (9)   | 4.46                   | (5)  | (5) (3)   | 5.14                    | (11) | (14) (13) |
| 10           | Team             | USDA   | 3.08               | (13) | (16)      | 4.03                | (18) | (18) (10) | 4.15                   | (18) | (18) (15) | 5.01                    | (16) | (17) (18) |
| 11           | DK-153           | CW     | 3.14               | (12) | (7)       | 3.98                | (19) | (20) (11) | 3.86                   | (20) | (20) (20) | 4.81                    | (20) | (20) (20) |
| 12           | Syn. B           | NY     | 3.03               | (13) | (17)      | 4.00                | (7)  | (19) (20) | 4.31                   | (8)  | (14) (12) | 5.23                    | (8)  | (8) (11)  |
| 13           | Syn. H           | NY     | 3.16               | (10) | (12)      | 4.13                | (10) | (11) (16) | 4.25                   | (15) | (7) (14)  | 5.33                    | (6)  | (2) (5)   |
| 14           | Syn1 L (Honeoye) | NY     | 3.06               | (8)  | (13)      | 4.18                | (1)  | (11) (18) | 4.50                   | (3)  | (3) (2)   | 5.42                    | (4)  | (11) (2)  |
| 15           | Weevlchek        | FFR    | 3.34               | (4)  | (3)       | 4.19                | (11) | (14) (2)  | 4.18                   | (14) | (16) (17) | 5.29                    | (12) | (1) (9)   |
| 16           | T3-X8            | Tew.   | 3.28               | (6)  | (5)       | 4.26                | (4)  | (4) (15)  | 4.68                   | (1)  | (1) (1)   | 5.31                    | (4)  | (9) (8)   |
| 17           | T3-X5            | Tew.   | 3.52               | (1)  | (1)       | 4.16                | (15) | (9) (12)  | 4.40                   | (2)  | (12) (11) | 5.33                    | (2)  | (5) (5)   |
| 18           | Saranac          | NY     | 3.08               | (15) | (11)      | 4.21                | (1)  | (7) (18)  | 4.43                   | (7)  | (2) (7)   | 5.47                    | (1)  | (5) (1)   |
| 19           | Iroquois         | NY     | 3.15               | (15) | (13)      | 4.28                | (5)  | (3) (13)  | 4.38                   | (15) | (6) (4)   | 5.32                    | (7)  | (3) (7)   |
| 20           | Vernal           | Wisc.  | 2.98               | (19) | (15)      | 4.11                | (14) | (16) (7)  | 4.21                   | (9)  | (9) (19)  | 4.94                    | (15) | (19) (19) |
|              | Ave.             |        | 3.17               |      |           | 4.17                |      |           | 4.30                   |      |           | 5.19                    |      |           |



Location: Landisville, Pa.

(AL-71-1B)

Yield - Tons/Acre @ 12% M

| Rand.<br>No. | Entry            | Origin      | N.Y.<br>Lot # | 1974   |      |       |                 | 1972<br>Total | 72-74<br>Ave. |
|--------------|------------------|-------------|---------------|--------|------|-------|-----------------|---------------|---------------|
|              |                  |             |               | 6/3    | 7/8  | 8/20  | Season<br>Total |               |               |
| 1            | K0-203           | NK          | (71-12)       | 1.14   | .93  | 1.12  | 3.20            | 2.96          | 3.01          |
| 2            | K9-100           | NK          | (71-14)       | 1.34   | .96  | 1.17  | 3.47            | 3.12          | 3.17          |
| 3            | K0-8             | NK          | (71-15)       | 1.20   | .92  | 1.22  | 3.34            | 2.71          | 2.92          |
| 4            | 520              | AT          | (71-7)        | 1.03   | .94  | 1.05  | 3.03            | 2.79          | 2.92          |
| 5            | 530              | AT          | (71-6)        | 1.36   | .95  | 1.18  | 3.50            | 3.61          | 3.40          |
| 6            | WL-215           | WL          | (71-18)       | 1.26   | 1.03 | 1.23  | 3.52            | 3.21          | 3.20          |
| 7            | WL-217           | WL          | (71-19)       | 1.27   | 1.01 | 1.31  | 3.59            | 3.12          | 3.26          |
| 8            | WL-307           | WL          | (71-20)       | 1.39   | 1.01 | 1.37  | 3.77            | 3.43          | 3.37          |
| 9            | WL-309           | WL          | (71-21)       | 1.32   | .98  | 1.18  | 3.48            | 3.37          | 3.34          |
| 10           | Team             | USDA        | (70-21)       | 1.21   | .97  | 1.18  | 3.36            | 3.00          | 3.08          |
| 11           | DK-153           | CW          | (70-2)        | 1.07   | .94  | 1.31  | 3.32            | 3.21          | 3.14          |
| 12           | Syn. B           | NY          | (71-22)       | 1.12   | .94  | 1.18  | 3.23            | 2.98          | 3.03          |
| 13           | Syn. H           | NY          | (71-23)       | 1.29   | .99  | 1.24  | 3.52            | 3.06          | 3.16          |
| 14           | Syn. L (Honeoye) | NY          | (71-24)       | 1.06   | .95  | 1.19  | 3.21            | 3.05          | 3.06          |
| 15           | Weevlchek        | FFR         | (71-5)        | 1.21   | 1.02 | 1.28  | 3.52            | 3.43          | 3.34          |
| 16           | T3-X8            | Tew.        | (71-4)        | 1.25   | .91  | 1.26  | 3.42            | 3.41          | 3.28          |
| 17           | T3-X5            | Tew.        | (71-3)        | 1.31   | .93  | 1.37  | 3.61            | 3.69          | 3.52          |
| 18           | Saranac          | NY          | (71-8)        | 1.19   | .95  | 1.17  | 3.31            | 3.07          | 3.08          |
| 19           | Iroquois         | NY          | (71-9)        | 1.27   | .98  | 1.28  | 3.52            | 3.05          | 3.15          |
| 20           | Vernal           | Wisc.       | (71-11)       | 1.00   | .94  | 1.23  | 3.17            | 3.02          | 2.98          |
|              |                  | Ave.        |               | 1.21   | .96  | 1.23  | 3.40            | 3.16          | 3.17          |
|              |                  | F-entries   |               | 2.99** | .76- | 1.56- | 2.45**          | 3.29**        | 2.13*         |
|              |                  | LSD (P=.05) |               | .18    | .11  | .18   | .32             | .40           | .26           |
|              |                  | CV (%)      |               | 12.0   | 9.3  | 11.4  | 7.5             | 9.9           | 6.9           |





1971 Northeast Regional Alfalfa Variety Trial  
Location: Rock Springs, Pa. 1974 Data

(AL-71-1A)

Yield - Tons/Acre @ 12% M

| Rand.<br>No. | Entry            | Origin | N.Y.<br>Lot # | 1974  |       |        |        | 1972<br>Total | 1973<br>Total | 1974<br>Season<br>Total | 72-74<br>Ave. |
|--------------|------------------|--------|---------------|-------|-------|--------|--------|---------------|---------------|-------------------------|---------------|
|              |                  |        |               | 6/6   | 7/26  | 9/23   | Total  |               |               |                         |               |
| 1            | K0-203           | NK     | (71-12)       | 1.67  | 1.16  | .76    | 3.59   | 3.83          | 4.74          | 3.59                    | 4.05          |
| 2            | K9-100           | NK     | (71-14)       | 1.64  | 1.25  | .81    | 3.70   | 4.09          | 4.80          | 3.70                    | 4.20          |
| 3            | K0-8             | NK     | (71-15)       | 1.50  | 1.27  | .73    | 3.50   | 3.97          | 4.56          | 3.50                    | 4.01          |
| 4            | 520              | AT     | (71-7)        | 1.76  | 1.26  | .76    | 3.71   | 4.12          | 4.85          | 3.71                    | 4.23          |
| 5            | 530              | AT     | (71-6)        | 1.60  | 1.23  | .84    | 3.68   | 4.14          | 5.11          | 3.68                    | 4.31          |
| 6            | WL-215           | WL     | (71-18)       | 1.75  | 1.25  | .77    | 3.77   | 4.09          | 4.96          | 3.77                    | 4.27          |
| 7            | WL-217           | WL     | (71-19)       | 1.71  | 1.25  | .89    | 3.85   | 4.25          | 4.94          | 3.85                    | 4.35          |
| 8            | WL-307           | WL     | (71-20)       | 1.65  | 1.25  | .81    | 3.71   | 4.03          | 4.68          | 3.71                    | 4.14          |
| 9            | WL-309           | WL     | (71-21)       | 1.64  | 1.21  | .81    | 3.67   | 4.15          | 5.19          | 3.67                    | 4.34          |
| 10           | Team             | USDA   | (70-21)       | 1.62  | 1.21  | .83    | 3.66   | 3.93          | 4.50          | 3.66                    | 4.03          |
| 11           | DK-153           | CW     | (70-2)        | 1.61  | 1.23  | .79    | 3.63   | 3.87          | 4.45          | 3.63                    | 3.98          |
| 12           | Syn. B           | NY     | (71-22)       | 1.59  | 1.10  | .71    | 3.40   | 4.14          | 4.46          | 3.40                    | 4.00          |
| 13           | Syn. H           | NY     | (71-23)       | 1.55  | 1.18  | .78    | 3.51   | 4.11          | 4.77          | 3.51                    | 4.13          |
| 14           | Syn. L (Honeoye) | NY     | (71-24)       | 1.61  | 1.16  | .68    | 3.45   | 4.31          | 4.77          | 3.45                    | 4.18          |
| 15           | Weevlchek        | FFR    | (71-5)        | 1.69  | 1.26  | .83    | 3.79   | 4.10          | 4.68          | 3.79                    | 4.19          |
| 16           | T3-X8            | Tew.   | (71-4)        | 1.59  | 1.19  | .77    | 3.55   | 4.22          | 5.01          | 3.55                    | 4.26          |
| 17           | T3-X5            | Tew.   | (71-3)        | 1.63  | 1.14  | .85    | 3.61   | 4.06          | 4.81          | 3.61                    | 4.16          |
| 18           | Saranac          | NY     | (71-8)        | 1.57  | 1.12  | .76    | 3.45   | 4.31          | 4.87          | 3.45                    | 4.21          |
| 19           | Iroquois         | NY     | (71-9)        | 1.70  | 1.18  | .72    | 3.60   | 4.18          | 5.05          | 3.60                    | 4.28          |
| 20           | Vernal           | Wisc.  | (71-11)       | 1.62  | 1.23  | .82    | 3.68   | 4.08          | 4.58          | 3.68                    | 4.11          |
|              | Ave.             |        |               | 1.64  | 1.20  | .79    | 3.63   | 4.10          | 4.79          | 3.63                    | 4.17          |
|              | F-entries        |        |               | 1.41- | 1.51- | 4.10** | 2.19** | 1.89*         | 2.32**        | 2.19**                  |               |
|              | LSD (P=.05)      |        |               | .15   | .11   | .08    | .23    | .26           | .40           | .23                     |               |
|              | CV (%)           |        |               | 7.3   | 7.4   | 7.4    | 5.1    | 5.1           | 6.5           | 5.1                     |               |



1971 Northeast Regional Alfalfa Variety Trial  
Location: Ketola Field, Ithaca, N.Y. 1974 Data

Location: Ketola Field, Ithaca, N.Y. 1974 Data

Yield - Tons/Acre @ 12% M

| Rand.<br>No. | Entry            | Origin | N.Y.<br>Lot # | Season          |        |        | 1972-74 |        | Notes: |        |       |     |                                                                                                                                                                                 |
|--------------|------------------|--------|---------------|-----------------|--------|--------|---------|--------|--------|--------|-------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |                  |        |               | 6/4             | 7/16   | 9/4    | Adj.    | Total  |        | Adj.   | Total |     |                                                                                                                                                                                 |
| 1            | K0-203           | NK     | (71-12)       | 1.97            | 1.05   | .75    | 3.76    | 3.82   | 4.81   | 4.50   | 4.38  | (1) | This test conducted on relatively shallow soil with only moderately well drained conditions. Alfalfa tends to survive but not thrive and is annually affected by summer drouth. |
| 2            | K9-100           | NK     | (71-14)       | 1.95            | 1.10   | .75    | 3.80    | 3.71   | 4.73   | 4.67   | 4.37  |     |                                                                                                                                                                                 |
| 3            | K0-8             | NK     | (71-15)       | 1.93            | 1.02   | .73    | 3.68    | 3.61   | 4.58   | 4.42   | 4.20  |     |                                                                                                                                                                                 |
| 4            | 520              | AT     | (71-7)        | 1.97            | 1.18   | .82    | 3.97    | 3.87   | 4.67   | 4.57   | 4.37  |     |                                                                                                                                                                                 |
| 5            | 530              | AT     | (71-6)        | 2.06            | 1.08   | .78    | 3.92    | 3.92   | 4.67   | 4.50   | 4.36  |     |                                                                                                                                                                                 |
| 6            | WL-215           | WL     | (71-18)       | 2.01            | 1.11   | .82    | 3.94    | 3.87   | 4.52   | 4.33   | 4.24  |     | Considerable quack grass came in on half the reps. in second year, taken out with Kurb.                                                                                         |
| 7            | WL-217           | WL     | (71-19)       | 1.99            | 1.06   | .73    | 3.78    | 3.90   | 4.65   | 4.46   | 4.34  |     |                                                                                                                                                                                 |
| 8            | WL-307           | WL     | (71-20)       | 1.97            | 1.05   | .76    | 3.79    | 3.55   | 4.46   | 4.39   | 4.13  |     |                                                                                                                                                                                 |
| 9            | WL-309           | WL     | (71-21)       | 1.97            | 1.20   | .91    | 4.07    | 3.99   | 4.77   | 4.61   | 4.46  |     |                                                                                                                                                                                 |
| 10           | Team             | USDA   | (70-21)       | 1.82            | .94    | .69    | 3.45    | 3.63   | 4.48   | 4.35   | 4.15  |     |                                                                                                                                                                                 |
| 11           | DK-153           | CW     | (70-2)        | 1.70            | .85    | .62    | 3.17    | 3.34   | 4.07   | 4.17   | 3.86  | (2) | Weevil present all 3 seasons but little loss with the indicated mgt. No obvious influence of other pests & diseases.                                                            |
| 12           | Syn. B           | NY     | (71-22)       | 1.92            | 1.05   | .67    | 3.64    | 3.80   | 4.62   | 4.52   | 4.31  |     |                                                                                                                                                                                 |
| 13           | Syn. H           | NY     | (71-23)       | 1.93            | 1.03   | .62    | 3.59    | 3.66   | 4.68   | 4.41   | 4.25  |     |                                                                                                                                                                                 |
| 14           | Syn. L (Honeoye) | NY     | (71-24)       | 2.07            | 1.20   | .90    | 4.17    | 4.01   | 4.82   | 4.67   | 4.50  |     |                                                                                                                                                                                 |
| 15           | Weevlchek        | FFR    | (71-5)        | 1.81            | 1.00   | .69    | 3.50    | 3.58   | 4.53   | 4.42   | 4.18  |     |                                                                                                                                                                                 |
| 16           | T3-X8            | Tew.   | (71-4)        | 1.92            | 1.21   | .90    | 4.03    | 4.05   | 5.13   | 4.87   | 4.68  | (3) |                                                                                                                                                                                 |
| 17           | T3-X5            | Tew.   | (71-3)        | 1.85            | 1.07   | .79    | 3.72    | 3.81   | 4.66   | 4.72   | 4.40  |     |                                                                                                                                                                                 |
| 18           | Saranac          | NY     | (71-8)        | 1.91            | 1.08   | .79    | 3.78    | 3.88   | 4.86   | 4.55   | 4.43  |     |                                                                                                                                                                                 |
| 19           | Iroquois         | NY     | (71-9)        | 2.09            | 1.15   | .78    | 4.02    | 3.98   | 4.76   | 4.41   | 4.38  |     |                                                                                                                                                                                 |
| 20           | Vernal           | Wisc.  | (71-11)       | 1.85            | 1.03   | .62    | 3.50    | 3.44   | 4.67   | 4.51   | 4.21  |     |                                                                                                                                                                                 |
| 21           | K1-1             | NK     | (71-13)       | 2.01            | 1.05   | .76    | 3.82    | 3.79   | 4.85   | 4.53   | 4.39  |     |                                                                                                                                                                                 |
| 22           | K0-2             | NK     | (71-17)       | 1.88            | 1.05   | .70    | 3.64    | 3.67   | 4.43   | 4.45   | 4.18  |     |                                                                                                                                                                                 |
| 23           | Syn. N           | NY     | (71-25)       | 1.99            | 1.07   | .69    | 3.75    | 3.70   | 4.60   | 4.25   | 4.18  |     |                                                                                                                                                                                 |
| 24           | Narragansett     | --     | (71-10)       | 1.94            | 1.13   | .72    | 3.80    | 3.76   | 4.72   | 4.58   | 4.35  |     |                                                                                                                                                                                 |
| 25           | Ranger           | --     | (71-16)       | 1.86            | 1.00   | .64    | 3.50    | 3.46   | 4.08   | 4.21   | 3.92  |     |                                                                                                                                                                                 |
| Ave.         |                  |        |               | 1.94            | 1.07   | .74    | 3.75    | 3.75   | 4.63   | 4.48   | 4.30  |     |                                                                                                                                                                                 |
| F-entries    |                  |        |               | 1.60-           | 2.05** | 3.22** | 2.74**  | 4.80** | 5.67** | 2.39** |       |     |                                                                                                                                                                                 |
| LSD (P=.05)  |                  |        |               | .20             | .16    | .14    | .38     | .24    | .27    | .30    |       |     |                                                                                                                                                                                 |
| CV (%)       |                  |        |               | 8.7             | 13.1   | 15.4   | 8.8     | 5.5    | 5.0    | 5.7    |       |     |                                                                                                                                                                                 |
|              |                  |        |               | Lat. Efficiency |        |        | 250%    | 401%   | 143%   |        |       |     |                                                                                                                                                                                 |



1971 Northeast Regional Alfalfa Trial Series  
Location: McGowan Field, Ithaca, N.Y. 1974 Data

Yield - Tons/Acre @ 12% M

| Rand.<br>No.       | Entry         | Origin | N.Y.<br>Lot # | Yield - Tons/Acre @ 12% M |       |        |        |        | Season |        | 1973  |      | 1972  |         |
|--------------------|---------------|--------|---------------|---------------------------|-------|--------|--------|--------|--------|--------|-------|------|-------|---------|
|                    |               |        |               | 6/6                       | 7/18  | 9/5    | Total  | Adj.   | Total  | Adj.   | Total | Adj. | Total | Average |
| 1                  | KO-203        | NK     | (71-12)       | 2.30                      | 1.64  | 1.48   | 5.42   | 5.39   | 5.56   | 5.09   | 5.35  |      |       |         |
| 2                  | K9-100        | NK     | (71-14)       | 2.07                      | 1.58  | 1.46   | 5.11   | 5.06   | 5.38   | 4.94   | 5.13  |      |       |         |
| 3                  | WL-216        | WL     | (70-5)        | 2.24                      | 1.54  | 1.35   | 5.14   | 5.05   | 5.41   | 4.78   | 5.08  |      |       |         |
| 4                  | 520           | AT     | (71-7)        | 2.44                      | 1.51  | 1.45   | 5.40   | 5.48   | 5.44   | 4.93   | 5.28  |      |       |         |
| 5                  | 530           | AT     | (71-6)        | 2.31                      | 1.52  | 1.47   | 5.30   | 5.48   | 5.23   | 5.34   | 5.35  |      |       |         |
| 6                  | WL-215        | WL     | (71-18)       | 2.25                      | 1.49  | 1.28   | 5.02   | 4.99   | 5.33   | 4.78   | 5.03  |      |       |         |
| 7                  | WL-217        | WL     | (71-19)       | 2.05                      | 1.51  | 1.41   | 4.97   | 5.02   | 5.49   | 5.01   | 5.17  |      |       |         |
| 8                  | WL-307        | WL     | (71-20)       | 2.21                      | 1.46  | 1.31   | 4.98   | 5.02   | 5.30   | 4.79   | 5.04  |      |       |         |
| 9                  | WL-309        | WL     | (71-21)       | 2.24                      | 1.56  | 1.41   | 5.21   | 5.12   | 5.34   | 4.97   | 5.14  |      |       |         |
| 10                 | Team          | USDA   | (70-21)       | 2.29                      | 1.45  | 1.30   | 5.04   | 4.97   | 5.28   | 4.79   | 5.01  |      |       |         |
| 11                 | DK-153        | CW     | (70-2)        | 2.08                      | 1.41  | 1.17   | 4.66   | 4.72   | 5.12   | 4.58   | 4.81  |      |       |         |
| 12                 | Syn. B        | NY     | (71-22)       | 2.29                      | 1.42  | 1.38   | 5.09   | 5.13   | 5.46   | 5.10   | 5.23  |      |       |         |
| 13                 | Syn. H        | NY     | (71-23)       | 2.34                      | 1.52  | 1.49   | 5.35   | 5.26   | 5.59   | 5.14   | 5.33  |      |       |         |
| 14                 | Early Sar.-70 | NY     | (71-26)       | 2.44                      | 1.62  | 1.49   | 5.56   | 5.62   | 5.43   | 5.21   | 5.42  |      |       |         |
| 15                 | Weevlchek     | FFR    | (71-5)        | 2.29                      | 1.52  | 1.51   | 5.32   | 5.28   | 5.64   | 4.95   | 5.29  |      |       |         |
| 16                 | T3-X8         | Tew.   | (71-4)        | 2.23                      | 1.50  | 1.54   | 5.28   | 5.27   | 5.44   | 5.21   | 5.31  |      |       |         |
| 17                 | T3-X5         | Tew.   | (71-3)        | 2.22                      | 1.55  | 1.41   | 5.18   | 5.12   | 5.52   | 5.35   | 5.33  |      |       |         |
| 18                 | Saranac       | NY     | (71-8)        | 2.40                      | 1.55  | 1.49   | 5.43   | 5.48   | 5.52   | 5.41   | 5.47  |      |       |         |
| 19                 | Iroquois      | NY     | (71-9)        | 2.22                      | 1.47  | 1.44   | 5.13   | 5.28   | 5.58   | 5.11   | 5.32  |      |       |         |
| 20                 | Vernal        | Wisc.  | (71-11)       | 2.21                      | 1.38  | 1.35   | 4.94   | 4.87   | 5.15   | 4.80   | 4.94  |      |       |         |
| 21                 | K1-1          | NK     | (71-13)       | 2.36                      | 1.46  | 1.37   | 5.19   | 5.19   | 5.57   | 5.10   | 5.29  |      |       |         |
| 22                 | K0-2          | NK     | (71-17)       | 2.38                      | 1.52  | 1.36   | 5.26   | 5.29   | 5.41   | 5.14   | 5.28  |      |       |         |
| 23                 | Syn. N        | NY     | (71-25)       | 2.26                      | 1.43  | 1.20   | 4.89   | 4.85   | 5.31   | 4.81   | 4.99  |      |       |         |
| 24                 | Narragansett  | --     | (71-10)       | 2.29                      | 1.52  | 1.30   | 5.10   | 5.02   | 5.52   | 5.08   | 5.21  |      |       |         |
| 25                 | Ranger        | --     | (71-16)       | 2.20                      | 1.38  | 1.29   | 4.87   | 4.88   | 5.21   | 4.64   | 4.91  |      |       |         |
| Ave.               |               |        |               | 2.26                      | 1.50  | 1.39   | 5.15   | 5.15   | 5.41   | 5.00   | 5.19  |      |       |         |
| F-entries          |               |        |               | 1.82*                     | 1.84* | 2.33** | 2.21** | 3.62** | 1.69*  | 3.44** |       |      |       |         |
| LSD (P=.05)        |               |        |               | .22                       | .14   | .18    | .40    | .34    | .31    | .34    |       |      |       |         |
| CV (%)             |               |        |               | 8.2                       | 8.1   | 11.2   | 6.3    | 5.6    | 4.9    | 5.8    |       |      |       |         |
| Lattice efficiency |               |        |               |                           |       |        |        | 139%   | 234%   | 337%   |       |      |       |         |



1972 Northeast Regional Alfalfa Trial Series A & B  
1973-74 Summary

| Rand.<br>No. | Variety Name<br>or No. | Owner or<br>Origin | Landisville |             |           | Rock Springs |             |           | Ithaca, N.Y.<br>(Helfer) |             |           | Ithaca, N.Y.<br>(Snyder) |             |           |
|--------------|------------------------|--------------------|-------------|-------------|-----------|--------------|-------------|-----------|--------------------------|-------------|-----------|--------------------------|-------------|-----------|
|              |                        |                    | $\bar{X}$   | Pa.<br>Rank | (73) (74) | $\bar{X}$    | Pa.<br>Rank | (73) (74) | $\bar{X}$                | Pa.<br>Rank | (73) (74) | $\bar{X}$                | Pa.<br>Rank | (73) (74) |
| 1            | 131                    | DeKalb             | 3.41        | (21)        | (22)      | 4.08         | (23)        | (21)      | 4.59                     | (21)        | (18)      | 4.81                     | (23)        | (16)      |
| 2            | Weevlchek              | FFR                | 3.74        | (12)        | (7)       | 4.49         | (5)         | (5)       | 4.92                     | (12)        | (13)      | 5.05                     | (9)         | (17)      |
| 3            | 2 x 4                  | FFR                | 3.70        | (12)        | (17)      | 4.33         | (19)        | (4)       | 4.40                     | (22)        | (22)      | 5.25                     | (10)        | (3)       |
| 4            | WL 307                 | WL                 | 3.91        | (8)         | (4)       | 4.35         | (13)        | (19)      | 5.07                     | (7)         | (8)       | 4.82                     | (22)        | (19)      |
| 5            | WL 309                 | WL                 | 3.91        | (6)         | (5)       | 4.61         | (1)         | (2)       | 4.62                     | (15)        | (21)      | 4.84                     | (20)        | (23)      |
| 6            | DC-5                   | RP                 | 3.80        | (9)         | (9)       | 4.53         | (3)         | (5)       | 5.11                     | (3)         | (11)      | 5.17                     | (5)         | (13)      |
| 7            | Anchor                 | RP                 | 3.73        | (11)        | (10)      | 4.37         | (10)        | (17)      | 5.26                     | (5)         | (2)       | 5.28                     | (12)        | (1)       |
| 8            | 520                    | AT                 | 3.80        | (9)         | (8)       | 4.06         | (25)        | (20)      | 4.89                     | (18)        | (13)      | 5.06                     | (15)        | (7)       |
| 9            | 530                    | AT                 | 3.53        | (18)        | (18)      | 4.18         | (14)        | (24)      | 4.95                     | (15)        | (9)       | 5.08                     | (16)        | (6)       |
| 10           | K1-11                  | NK                 | 3.69        | (15)        | (12)      | 4.38         | (10)        | (11)      | 5.22                     | (2)         | (7)       | 5.13                     | (8)         | (11)      |
| 11           | Gemini                 | NK                 | 3.58        | (17)        | (15)      | 4.34         | (18)        | (5)       | 5.06                     | (17)        | (5)       | 5.26                     | (11)        | (2)       |
| 12           | K1-10                  | NK                 | 3.84        | (4)         | (10)      | 4.34         | (15)        | (11)      | 4.86                     | (4)         | (19)      | 5.01                     | (13)        | (21)      |
| 13           | Iroquois               | (NY)               | 3.43        | (19)        | (19)      | 4.39         | (7)         | (16)      | 5.08                     | (11)        | (6)       | 5.06                     | (7)         | (19)      |
| 14           | Team                   | (ARS)              | 3.69        | (15)        | (12)      | 4.50         | (9)         | (3)       | 4.61                     | (20)        | (20)      | 4.79                     | (24)        | (18)      |
| 15           | Beltsville-71          | (ARS)              | 4.03        | (4)         | (3)       | 4.26         | (21)        | (8)       | 4.83                     | (19)        | (16)      | 4.97                     | (18)        | (11)      |
| 16           | Vernal                 | (Wisc.)            | 3.58        | (14)        | (21)      | 4.56         | (8)         | (1)       | 4.88                     | (13)        | (17)      | 4.67                     | (25)        | (25)      |
| 17           | Beltsville 3-An4       | (ARS)              | 4.08        | (2)         | (2)       | 4.51         | (2)         | (9)       | 5.01                     | (6)         | (15)      | 4.98                     | (17)        | (14)      |
| 18           | Glacier                | NK                 | 3.49        | (19)        | (15)      | 3.98         | (24)        | (23)      | 5.13                     | (10)        | (4)       | 5.26                     | (3)         | (5)       |
| 19           | Beltsville 1-An4       | (ARS)              | 3.89        | (3)         | (6)       | 4.17         | (17)        | (22)      | 5.00                     | (8)         | (12)      | 5.03                     | (14)        | (14)      |
| 20           | Saranac                | (NY)               | 3.33        | (22)        | (20)      | 4.43         | (5)         | (11)      | 5.16                     | (9)         | (3)       | 5.15                     | (6)         | (10)      |
| 21           | Beltsville 2-An4       | (ARS)              | 4.14        | (1)         | (1)       | -----        | -----       | -----     | 4.96                     | (13)        | (10)      | -----                    | -----       | -----     |
| 21           | K0-6                   | NK                 | -----       | -----       | -----     | 4.07         | (20)        | (24)      | -----                    | -----       | -----     | 4.83                     | (21)        | (22)      |
| 22           | TBX-5                  | Tew.               | 3.81        | (6)         | (14)      | 4.32         | (16)        | (11)      | 5.40                     | (1)         | (1)       | 5.20                     | (4)         | (8)       |
| 23           | Titan                  | RP                 | -----       | -----       | -----     | 4.21         | (22)        | (10)      | -----                    | -----       | -----     | 4.79                     | (19)        | (24)      |
| 24           | ML Syn. V              | (NY)               | -----       | -----       | -----     | 4.43         | (4)         | (17)      | -----                    | -----       | -----     | 5.33                     | (2)         | (4)       |
| 25           | Reselect. Sar.-70      | (NY)               | -----       | -----       | -----     | 4.37         | (12)        | (11)      | -----                    | -----       | -----     | 5.29                     | (1)         | (9)       |
|              |                        | Ave.               | 3.73        |             |           | 4.33         |             |           |                          |             |           | 5.04                     |             |           |





1972 Northeast Regional Alfalfa Trial - Series B  
Location: Landisville, Pa.

Yield - Tons/Acre @ 12% M

| Rand.<br>No. | Entry            | Owner or<br>Origin | 6/3    | 7/9   | 8/21   | Season<br>Total | 1973<br>Total | 1973-74<br>Ave. |
|--------------|------------------|--------------------|--------|-------|--------|-----------------|---------------|-----------------|
| 1            | 131              | DeKalb             | 1.30   | 1.08  | .91    | 3.29            | 3.53          | 3.41            |
| 2            | Weevlchek        | FRR                | 1.49   | 1.06  | .95    | 3.50            | 3.98          | 3.74            |
| 3            | 2 x 4            | FRR                | 1.34   | 1.14  | .93    | 3.42            | 3.98          | 3.70            |
| 4            | WL 307           | WL                 | 1.56   | 1.18  | .97    | 3.70            | 4.13          | 3.91            |
| 5            | WL 309           | WL                 | 1.58   | 1.08  | .98    | 3.65            | 4.18          | 3.91            |
| 6            | DC-5             | RP                 | 1.50   | 1.07  | .91    | 3.48            | 4.12          | 3.80            |
| 7            | Anchor           | RP                 | 1.46   | 1.06  | .95    | 3.47            | 3.99          | 3.73            |
| 8            | 520              | AT                 | 1.50   | 1.10  | .89    | 3.49            | 4.12          | 3.80            |
| 9            | 530              | AT                 | 1.28   | 1.16  | .94    | 3.37            | 3.70          | 3.53            |
| 10           | K1-11            | NK                 | 1.49   | 1.05  | .93    | 3.46            | 3.92          | 3.69            |
| 11           | Gemini           | NK                 | 1.42   | 1.07  | .95    | 3.44            | 3.72          | 3.58            |
| 12           | K1-10            | NK                 | 1.48   | 1.09  | .90    | 3.47            | 4.21          | 3.84            |
| 13           | Iroquois         | (NY)               | 1.35   | 1.06  | .92    | 3.32            | 3.55          | 3.43            |
| 14           | Team             | (ARS)              | 1.44   | 1.08  | .94    | 3.46            | 3.92          | 3.69            |
| 15           | Beltsville-71    | (ARS)              | 1.73   | 1.08  | 1.05   | 3.86            | 4.21          | 4.03            |
| 16           | Vernal           | (Wisc.)            | 1.30   | 1.06  | .86    | 3.21            | 3.96          | 3.58            |
| 17           | Beltsville 3-An4 | (ARS)              | 1.75   | 1.12  | 1.00   | 3.87            | 4.29          | 4.08            |
| 18           | Glacier          | NK                 | 1.42   | 1.09  | .93    | 3.44            | 3.55          | 3.49            |
| 19           | Beltsville 1-An4 | (ARS)              | 1.50   | 1.07  | .98    | 3.55            | 4.23          | 3.89            |
| 20           | Saranac          | (NY)               | 1.40   | 1.06  | .80    | 3.25            | 3.41          | 3.33            |
| 21           | Beltsville 2-An4 | (ARS)              | 1.57   | 1.24  | 1.10   | 3.91            | 4.37          | 4.14            |
| 22           | TBX-5            | Tew.               | 1.48   | 1.07  | .89    | 3.45            | 4.18          | 3.81            |
|              | Ave.             |                    | 1.47   | 1.09  | .94    | 3.50            | 3.97          | 3.73            |
|              | F-entries        |                    | 4.54** | 1.80* | 3.01** | 5.00**          | 3.90**        |                 |
|              | LSD (P=.05)      |                    | .16    | .10   | .10    | .24             | .40           |                 |
|              | CV (%)           |                    | 8.7    | 7.3   | 8.4    | 5.4             | 7.1           |                 |

Average  
yield differences  
due to anthracnose  
resistance

.34 Ton/acre per year

.50 Ton/acre per year

.40 Ton/acre per year

.81 Ton/acre per year



1972 Northeast Regional Alfalfa Trial Series - A  
Location: Rock Springs, Pa.

Yield - Tons/Acre @ 12% M

| Rand.<br>No. | Entry             | Owner or<br>Origin | N.Y.<br>No. | 6/10  | 7/30   | 9/24   | Season<br>Total | 1974   |        | 1973 |       | 73-74<br>Ave. |
|--------------|-------------------|--------------------|-------------|-------|--------|--------|-----------------|--------|--------|------|-------|---------------|
|              |                   |                    |             |       |        |        |                 | Adj.   | Total  | Adj. | Total |               |
| 1            | 131               | DeKalb             | (72-1)      | 1.61  | 1.46   | 1.03   | 4.10            | 4.11   | 4.05   | 4.08 | 4.08  |               |
| 2            | Weevlchek         | FFR                | (72-4)      | 1.74  | 1.53   | 1.10   | 4.37            | 4.39   | 4.59   | 4.49 | 4.49  |               |
| 3            | 2 x 4             | FFR                | (72-5)      | 1.72  | 1.74   | 1.00   | 4.46            | 4.48   | 4.18   | 4.33 | 4.33  |               |
| 4            | WL 307            | WL                 | (72-22)     | 1.76  | 1.50   | .96    | 4.22            | 4.24   | 4.46   | 4.35 | 4.35  |               |
| 5            | WL 309            | WL                 | (72-23)     | 1.77  | 1.63   | 1.08   | 4.47            | 4.52   | 4.71   | 4.61 | 4.61  |               |
| 6            | DC-5              | RP                 | (72-8)      | 1.77  | 1.59   | 1.07   | 4.43            | 4.39   | 4.66   | 4.53 | 4.53  |               |
| 7            | Anchor            | RP                 | (72-6)      | 1.74  | 1.51   | .96    | 4.22            | 4.25   | 4.49   | 4.37 | 4.37  |               |
| 8            | 520               | AT                 | (72-24)     | 1.68  | 1.42   | 1.01   | 4.11            | 4.16   | 3.97   | 4.06 | 4.06  |               |
| 9            | 530               | AT                 | (72-25)     | 1.57  | 1.44   | .95    | 3.96            | 3.95   | 4.42   | 4.18 | 4.18  |               |
| 10           | K1-11             | NK                 | (72-9)      | 1.75  | 1.47   | 1.04   | 4.26            | 4.27   | 4.49   | 4.38 | 4.38  |               |
| 11           | Gemini            | NK                 | (72-10)     | 1.69  | 1.63   | 1.06   | 4.38            | 4.39   | 4.29   | 4.34 | 4.34  |               |
| 12           | K1-10             | NK                 | (72-11)     | 1.71  | 1.41   | 1.14   | 4.26            | 4.27   | 4.41   | 4.34 | 4.34  |               |
| 13           | Iroquois          | (NY)               | (72-27)     | 1.74  | 1.55   | .98    | 4.27            | 4.26   | 4.53   | 4.39 | 4.39  |               |
| 14           | Team              | (ARS)              | (72-13)     | 1.76  | 1.68   | 1.08   | 4.52            | 4.49   | 4.51   | 4.50 | 4.50  |               |
| 15           | Beltsville-71     | (ARS)              | (72-15)     | 1.71  | 1.63   | 1.01   | 4.35            | 4.36   | 4.15   | 4.26 | 4.26  |               |
| 16           | Vernal            | (Wisc.)            | (71-11)     | 1.95  | 1.74   | .97    | 4.66            | 4.63   | 4.52   | 4.56 | 4.56  |               |
| 17           | Beltsville 3-An4  | (ARS)              | (72-17)     | 1.59  | 1.58   | 1.15   | 4.32            | 4.34   | 4.68   | 4.51 | 4.51  |               |
| 18           | Glacier           | NK                 | (72-18)     | 1.69  | 1.42   | .90    | 4.01            | 3.98   | 3.98   | 3.98 | 3.98  |               |
| 19           | Beltsville 1-An4  | (ARS)              | (72-16)     | 1.64  | 1.44   | 1.00   | 4.08            | 4.04   | 4.31   | 4.17 | 4.17  |               |
| 20           | Saranac           | (NY)               | (72-26)     | 1.74  | 1.50   | .98    | 4.22            | 4.27   | 4.59   | 4.43 | 4.43  |               |
| 21           | K0-6              | NK                 | (72-12)     | 1.73  | 1.28   | .97    | 3.98            | 3.93   | 4.17   | 4.07 | 4.07  |               |
| 22           | TBX-5             | Tew.               | (72-3)      | 1.75  | 1.51   | 1.01   | 4.27            | 4.27   | 4.38   | 4.32 | 4.32  |               |
| 23           | Titan             | RP                 | (72-7)      | 1.72  | 1.59   | 1.03   | 4.34            | 4.33   | 4.12   | 4.21 | 4.21  |               |
| 24           | ML Syn. V         | (NY)               | (72-32)     | 1.64  | 1.56   | 1.09   | 4.29            | 4.25   | 4.61   | 4.43 | 4.43  |               |
| 25           | Reselect. Sar.-70 | (NY)               | (72-35)     | 1.68  | 1.57   | 1.05   | 4.29            | 4.27   | 4.48   | 4.37 | 4.37  |               |
|              |                   | Ave.               |             | 1.71  | 1.53   | 1.02   | 4.27            | 4.27   | 4.39   | 4.33 | 4.33  |               |
|              |                   | F-entries          |             | 1.48- | 2.32** | 3.30** | 2.69**          | 3.05** | 4.68** |      |       |               |
|              |                   | LSD (P=.05)        |             | .17   | .20    | .10    | .30             | .28    | .29    |      |       |               |
|              |                   | CV (%)             |             | 8.7   | 11.2   | 7.9    | 5.9             | 5.7    | 5.7    |      |       |               |
|              |                   |                    |             |       |        |        | Lat. Efficiency | 175%   | 101%   |      |       |               |



1972 Northeast Regional Alfalfa Series - B  
Location: Helfer Field #3, Ithaca, N.Y. 1974 Data

Yield - Tons/Acre @ 12% M

| Rand.<br>No. | Entry            | Owner or<br>Origin | 1974   |        |        |                 | Notes                                                                                                       |
|--------------|------------------|--------------------|--------|--------|--------|-----------------|-------------------------------------------------------------------------------------------------------------|
|              |                  |                    | 6/10   | 7/22   | 9/9    | Season<br>Total |                                                                                                             |
| 1            | 131              | DeKalb             | 2.46   | 1.27   | 1.12   | 4.84            | (1) Good yields of<br>excellent quality<br>forage in both<br>seasons. No weeds<br>or pest damage<br>losses. |
| 2            | Weevlchek        | FFR                | 2.73   | 1.50   | 1.03   | 5.24            |                                                                                                             |
| 3            | 2 x 4            | FFR                | 2.58   | 1.18   | .87    | 4.62            |                                                                                                             |
| 4            | WL 307           | WL                 | 2.72   | 1.57   | 1.08   | 5.36            |                                                                                                             |
| 5            | WL 309           | WL                 | 2.38   | 1.23   | 1.07   | 4.67            |                                                                                                             |
| 6            | DC-5             | RP                 | 2.76   | 1.49   | 1.04   | 5.28            |                                                                                                             |
| 7            | Anchor           | RP                 | 2.75   | 1.79   | 1.15   | 5.68            |                                                                                                             |
| 8            | 520              | AT                 | 2.67   | 1.45   | 1.13   | 5.24            |                                                                                                             |
| 9            | 530              | AT                 | 2.51   | 1.67   | 1.15   | 5.33            |                                                                                                             |
| 10           | K1-11            | NK                 | 2.83   | 1.55   | 1.12   | 5.49            |                                                                                                             |
| 11           | Gemini           | NK                 | 2.56   | 1.84   | 1.16   | 5.55            | (1) Good yields of<br>excellent quality<br>forage in both<br>seasons. No weeds<br>or pest damage<br>losses. |
| 12           | K1-10            | NK                 | 2.55   | 1.29   | 1.00   | 4.83            |                                                                                                             |
| 13           | Iroquois         | (NY)               | 2.63   | 1.71   | 1.17   | 5.50            |                                                                                                             |
| 14           | Team             | (ARS)              | 2.50   | 1.30   | 1.03   | 4.82            |                                                                                                             |
| 15           | Beltsville-71    | (ARS)              | 2.65   | 1.34   | 1.19   | 5.17            |                                                                                                             |
| 16           | Vernal           | (Wisc.)            | 2.60   | 1.54   | 1.03   | 5.16            |                                                                                                             |
| 17           | Beltsville 3-An4 | (ARS)              | 2.72   | 1.45   | 1.05   | 5.20            |                                                                                                             |
| 18           | Glacier          | NK                 | 2.52   | 1.90   | 1.16   | 5.58            |                                                                                                             |
| 19           | Beltsville 1-An4 | (ARS)              | 2.48   | 1.63   | 1.15   | 5.26            |                                                                                                             |
| 20           | Saranac          | (NY)               | 2.67   | 1.75   | 1.21   | 5.62            |                                                                                                             |
| 21           | Beltsville 2-An4 | (ARS)              | 2.55   | 1.62   | 1.16   | 5.32            | (1) Good yields of<br>excellent quality<br>forage in both<br>seasons. No weeds<br>or pest damage<br>losses. |
| 22           | TBX-5            | Tew.               | 2.68   | 1.77   | 1.25   | 5.70            |                                                                                                             |
| Ave.         |                  |                    | 2.61   | 1.54   | 1.11   | 5.25            |                                                                                                             |
| F-entries    |                  |                    | 2.42** | 5.58** | 2.77** | 3.61**          |                                                                                                             |
| LSD (P=.05)  |                  |                    | .20    | .26    | .14    | .48             |                                                                                                             |
| CV (%)       |                  |                    | 6.2    | 12.8   | 10.3   | 7.1             |                                                                                                             |
|              |                  |                    |        |        |        |                 |                                                                                                             |
|              |                  |                    |        |        |        |                 |                                                                                                             |
|              |                  |                    |        |        |        |                 |                                                                                                             |
|              |                  |                    |        |        |        |                 |                                                                                                             |



1972 Northeast Regional Alfalfa Trial Series - A  
Location: Snyder Field, Ithaca, N.Y. 1974 Data

Yield - Tons/Acre @ 12% M

| Rand.<br>No. | Entry            | Owner or<br>Origin | N.Y.<br>No. | 1974            |               |       |       | 1973<br>Total | 73-74<br>Ave. | Notes                    |
|--------------|------------------|--------------------|-------------|-----------------|---------------|-------|-------|---------------|---------------|--------------------------|
|              |                  |                    |             | Season<br>Total | Adj.<br>Total | 9/4   | 7/17  |               |               |                          |
| 1            | 131              | DeKalb             | (72-1)      | 1.82            | 1.42          | 1.43  | 1.42  | 4.94          | 4.81          | (1) This trial           |
| 2            | Weevlchek        | FFR                | (72-4)      | 1.87            | 1.38          | 1.40  | 1.38  | 5.44          | 5.05          | is on a                  |
| 3            | 2 x 4            | FFR                | (72-5)      | 2.10            | 1.47          | 1.49  | 1.47  | 5.43          | 5.25          | heavy clay               |
| 4            | WL 307           | WL                 | (72-22)     | 2.03            | 1.40          | 1.38  | 1.40  | 4.99          | 4.82          | loam that                |
| 5            | WL 309           | WL                 | (72-23)     | 1.82            | 1.39          | 1.36  | 1.39  | 5.07          | 4.84          | warms up                 |
| 6            | DC-5             | RP                 | (72-8)      | 2.08            | 1.36          | 1.44  | 1.36  | 5.56          | 5.17          | slowly in                |
| 7            | Anchor           | RP                 | (72-6)      | 2.08            | 1.53          | 1.52  | 1.53  | 5.40          | 5.28          | Spring and               |
| 8            | 520              | AT                 | (72-24)     | 1.88            | 1.50          | 1.44  | 1.50  | 5.28          | 5.06          | puts pressure            |
| 9            | 530              | AT                 | (72-25)     | 1.94            | 1.49          | 1.40  | 1.49  | 5.24          | 5.08          | on stands for            |
| 10           | K1-11            | NK                 | (72-9)      | 2.00            | 1.43          | 1.47  | 1.43  | 5.47          | 5.13          | winter sur-<br>vival but |
| 11           | Gemini           | NK                 | (72-10)     | 2.11            | 1.60          | 1.53  | 1.60  | 5.41          | 5.26          | rarely has               |
| 12           | K1-10            | NK                 | (72-11)     | 1.84            | 1.42          | 1.32  | 1.42  | 5.39          | 5.01          | summer drouth            |
| 13           | Iroquois         | (NY)               | (72-27)     | 1.90            | 1.50          | 1.39  | 1.50  | 5.48          | 5.06          | stress.                  |
| 14           | Team             | (ARS)              | (72-13)     | 1.91            | 1.42          | 1.33  | 1.42  | 4.92          | 4.79          |                          |
| 15           | Beltsville 71    | (ARS)              | (72-15)     | 1.90            | 1.45          | 1.40  | 1.45  | 5.14          | 4.97          |                          |
| 16           | Vernal           | (Wisc.)            | (71-11)     | 1.82            | 1.29          | 1.33  | 1.29  | 4.90          | 4.67          |                          |
| 17           | Beltsville 3-An4 | (ARS)              | (72-17)     | 2.01            | 1.33          | 1.38  | 1.33  | 5.22          | 4.98          |                          |
| 18           | Glacier          | NK                 | (72-18)     | 2.00            | 1.48          | 1.45  | 1.48  | 5.60          | 5.26          |                          |
| 19           | Beltsville 1-An4 | (ARS)              | (72-16)     | 1.95            | 1.40          | 1.44  | 1.40  | 5.32          | 5.03          |                          |
| 20           | Saranac          | (NY)               | (72-26)     | 1.90            | 1.33          | 1.38  | 1.33  | 5.50          | 5.15          |                          |
| 21           | K0-6             | NK                 | (72-12)     | 1.85            | 1.38          | 1.42  | 1.38  | 5.05          | 4.83          |                          |
| 22           | TBX-5            | Tew.               | (72-3)      | 1.86            | 1.46          | 1.39  | 1.46  | 5.57          | 5.20          |                          |
| 23           | Titan            | RP                 | (72-7)      | 1.79            | 1.32          | 1.35  | 1.32  | 5.11          | 4.79          |                          |
| 24           | ML Syn V         | (NY)               | (72-32)     | 1.94            | 1.57          | 1.50  | 1.57  | 5.65          | 5.33          |                          |
| 25           | Reselect. Sar-70 | (NY)               | (72-35)     | 1.99            | 1.46          | 1.40  | 1.46  | 5.77          | 5.29          |                          |
|              |                  | Ave.               |             | 1.93            | 1.43          | 1.41  | 1.43  | 5.31          | 5.04          |                          |
|              |                  | F-entries          |             | 2.68**          | 1.94*         | 1.49- | 1.94* | 3.53**        | 3.02**        |                          |
|              |                  | LSD (P=.05)        |             | .16             | .16           | .14   | .16   | .28           | .40           |                          |
|              |                  | C.V. (%)           |             | 7.4             | 9.6           | 8.4   | 9.6   | 5.0           | 6.5           |                          |
|              |                  |                    |             |                 |               |       |       | Effic. =      | 173%          |                          |





1973 Northeast Regional Alfalfa Trial Series  
1974 Summary

(Data = Tons/Acre @ 12% M)

| Rand.<br>No.                 | Entry         | Origin*  | N.Y.<br>Lot No. | Landisville       |                   | Rock Springs      |                   | Storrs              |                     | Ithaca, N.Y.             |                       | 5 Trial<br>Ave. |
|------------------------------|---------------|----------|-----------------|-------------------|-------------------|-------------------|-------------------|---------------------|---------------------|--------------------------|-----------------------|-----------------|
|                              |               |          |                 | Pa.<br>(3 Hvsts.) | Pa.<br>(3 Hvsts.) | Pa.<br>(3 Hvsts.) | Pa.<br>(3 Hvsts.) | Conn.<br>(3 Hvsts.) | Conn.<br>(3 Hvsts.) | New Ketola<br>(3 Hvsts.) | McGowan<br>(3 Hvsts.) |                 |
| 1                            | WL-311        | (WL)     | (73-4)          | 3.31              | 4.68              | 4.68              | 4.68              | 5.53                | 5.53                | 4.41                     | 5.84                  | 4.75            |
| 2                            | WL-219        | (WL)     | (73-5)          | 3.17              | 4.13              | 4.13              | 4.13              | 5.45                | 5.45                | 4.45                     | 6.92                  | 4.82            |
| 3                            | K1-5          | (NK)     | (73-23)         | 3.15              | 4.61              | 4.61              | 4.61              | 5.27                | 5.27                | 4.49                     | 6.42                  | 4.79            |
| 4                            | K3-7          | (NK)     | (73-22)         | 2.99              | 4.56              | 4.56              | 4.56              | 5.14                | 5.14                | 4.77                     | 6.52                  | 4.80            |
| 5                            | N7-5          | (NK)     | (73-24)         | 3.37              | 4.81              | 4.81              | 4.81              | 5.62                | 5.62                | 4.45                     | 5.35                  | 4.72            |
| 6                            | 131           | (DeKalb) | (73-14)         | 3.23              | 4.39              | 4.39              | 4.39              | 5.33                | 5.33                | 4.29                     | 6.46                  | 4.74            |
| 7                            | JE-1          | (AT)     | (73-25)         | 3.07              | 4.39              | 4.39              | 4.39              | 5.05                | 5.05                | 4.41                     | 6.03                  | 4.59            |
| 8                            | JG-1          | (AT)     | (73-26)         | 3.23              | 4.53              | 4.53              | 4.53              | 5.14                | 5.14                | 4.21                     | 6.52                  | 4.73            |
| 9                            | RP-103        | (RP)     | (73-15)         | 3.12              | 4.41              | 4.41              | 4.41              | 5.58                | 5.58                | 4.87                     | 6.63                  | 4.92            |
| 10                           | Nugget        | (RP)     | (73-16)         | 3.20              | 4.47              | 4.47              | 4.47              | 5.23                | 5.23                | 4.55                     | 6.49                  | 4.79            |
| 11                           | T4X-201       | (Tew.)   | (73-9)          | 2.85              | 4.14              | 4.14              | 4.14              | 5.34                | 5.34                | 4.40                     | 6.67                  | 4.68            |
| 12                           | T3X-206       | (Tew.)   | (73-10)         | 3.06              | 4.32              | 4.32              | 4.32              | 5.22                | 5.22                | 4.61                     | 6.83                  | 4.81            |
| 13                           | T3X-262       | (Tew.)   | (73-11)         | 2.91              | 4.06              | 4.06              | 4.06              | 5.13                | 5.13                | 4.56                     | 5.82                  | 4.50            |
| 14                           | Beltsville 71 | ARS      | (73-12)         | 3.41              | 4.38              | 4.38              | 4.38              | 5.33                | 5.33                | 4.27                     | 6.72                  | 4.82            |
| 15                           | Beltsville 72 | ARS      | (73-13)         | 3.60              | 4.39              | 4.39              | 4.39              | 5.33                | 5.33                | 4.38                     | 6.48                  | 4.84            |
| 16                           | D-69          | Va.      | (73-8)          | 2.99              | 4.35              | 4.35              | 4.35              | 5.20                | 5.20                | 4.49                     | 6.87                  | 4.78            |
| 17                           | Agate         | Minn.    | (73-28)         | 3.07              | 4.27              | 4.27              | 4.27              | 4.82                | 4.82                | 4.32                     | 5.79                  | 4.45            |
| 18                           | Weevlchek     | (FFR)    | (73-7)          | 3.21              | 4.47              | 4.47              | 4.47              | 5.45                | 5.45                | 4.50                     | 6.55                  | 4.84            |
| 19                           | Vernal        | Wisc.    | (72-46)         | 3.24              | 4.59              | 4.59              | 4.59              | 5.37                | 5.37                | 4.42                     | 6.37                  | 4.80            |
| 20                           | Saranac       | NY       | (73-20)         | 3.21              | 4.22              | 4.22              | 4.22              | 5.51                | 5.51                | 4.67                     | 6.56                  | 4.83            |
| 21                           | Iroquois      | NY       | (73-19)         | 3.19              | 4.70              | 4.70              | 4.70              | 5.43                | 5.43                | 4.64                     | 6.68                  | 4.93            |
| 22                           | Honeoye       | NY       | (73-17)         | 3.06              | 4.53              | 4.53              | 4.53              | 5.56                | 5.56                | 4.72                     | 6.75                  | 4.92            |
| 23                           | Hi Saponin    | MSU      | (73-2)          | -----             | 4.84              | 4.84              | 4.84              | -----               | -----               | 4.03                     | -----                 | -----           |
| 24                           | Low Saponin   | MSU      | (73-3)          | -----             | 4.31              | 4.31              | 4.31              | -----               | -----               | 3.69                     | -----                 | -----           |
| 25                           | 530           | (AT)     | (73-1)          | -----             | 4.28              | 4.28              | 4.28              | -----               | -----               | 4.46                     | -----                 | -----           |
| *( ) = proprietary varieties |               |          |                 | Ave.              | 3.17              | 4.43              | 4.43              | 5.32                | 5.32                | 4.44                     | 6.42                  |                 |
| F-entries                    |               |          |                 | 2.36**            | 2.19**            | 2.19**            | 2.19**            | 1.24-               | 1.24-               | 7.22**                   | 2.80**                |                 |
| LSD (P=.05)                  |               |          |                 | .31               | .38               | .38               | .38               | .50                 | .50                 | .26                      | .68                   |                 |
| CV (%)                       |               |          |                 | 7.7               | 7.5               | 7.5               | 7.5               | 7.5                 | 7.5                 | 4.9                      | 8.4                   |                 |



1973 Northeast Regional Alfalfa Trial Series  
Location: Landisville, Pa. 1974 Data

AL-73-1B

(Data = Tons/Acre @ 12% M)

| Rand.<br>No. | Entry            | Origin*  | N.Y.<br>No. | 5/23 | 7/8  | 8/20 | Season<br>Total | Notes:                                                                                                                                                                |
|--------------|------------------|----------|-------------|------|------|------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1            | WL-311           | (WL)     | 73-4        | 1.03 | 1.36 | .92  | 3.31            | 1. Agate was observed to have higher than average leaf spot infection in September. The three Teweles entries were noted higher than average for anthracnose strikes. |
| 2            | WL-219           | (WL)     | 73-5        | .93  | 1.37 | .87  | 3.17            |                                                                                                                                                                       |
| 3            | K1-5             | (NK)     | 73-23       | .95  | 1.34 | .86  | 3.15            |                                                                                                                                                                       |
| 4            | K3-7             | (NK)     | 73-22       | .88  | 1.25 | .86  | 2.99            |                                                                                                                                                                       |
| 5            | N7-5             | (NK)     | 73-24       | 1.05 | 1.46 | .86  | 3.37            |                                                                                                                                                                       |
| 6            | 131              | (DeKalb) | 73-14       | .92  | 1.42 | .89  | 3.23            | 2. The general yield levels for known resistant and susceptible varieties indicates anthracnose is a continuing production factor at this site.                       |
| 7            | JE-1             | (AT)     | 73-25       | .90  | 1.30 | .87  | 3.07            |                                                                                                                                                                       |
| 8            | JG-1             | (AT)     | 73-26       | .97  | 1.40 | .86  | 3.23            |                                                                                                                                                                       |
| 9            | RP-103           | (RP)     | 73-15       | .97  | 1.36 | .80  | 3.12            |                                                                                                                                                                       |
| 10           | Nugget           | (RP)     | 73-16       | .94  | 1.38 | .88  | 3.20            |                                                                                                                                                                       |
| 11           | T4X-201          | (Tew.)   | 73-9        | .84  | 1.25 | .77  | 2.85            |                                                                                                                                                                       |
| 12           | T3X-206          | (Tew.)   | 73-10       | .91  | 1.34 | .80  | 3.06            |                                                                                                                                                                       |
| 13           | T3X-262          | (Tew.)   | 73-11       | .88  | 1.28 | .75  | 2.91            |                                                                                                                                                                       |
| 14           | Beltsville 71    | ARS      | 73-12       | 1.07 | 1.45 | .90  | 3.41            |                                                                                                                                                                       |
| 15           | Beltsville 72    | ARS      | 73-13       | 1.01 | 1.67 | .91  | 3.60            |                                                                                                                                                                       |
| 16           | D-69             | Va.      | 73-8        | .87  | 1.25 | .87  | 2.99            |                                                                                                                                                                       |
| 17           | Agate            | Minn.    | 73-28       | .91  | 1.29 | .88  | 3.07            |                                                                                                                                                                       |
| 18           | Weevlc hek       | (FFR)    | 73-7        | 1.00 | 1.31 | .90  | 3.21            |                                                                                                                                                                       |
| 19           | Vernal           | Wisc.    | 72-46       | .97  | 1.41 | .86  | 3.24            |                                                                                                                                                                       |
| 20           | Saranac          | NY       | 73-20       | .90  | 1.33 | .98  | 3.21            |                                                                                                                                                                       |
| 21           | Iroquois         | NY       | 73-19       | .95  | 1.40 | .84  | 3.19            |                                                                                                                                                                       |
| 22           | Syn. L (Honeoye) | NY       | 73-17       | .96  | 1.23 | .86  | 3.06            |                                                                                                                                                                       |
|              |                  |          |             |      |      |      |                 | Ave.                                                                                                                                                                  |
|              |                  |          |             |      |      |      |                 | .95 1.36 .86 3.17                                                                                                                                                     |
|              |                  |          |             |      |      |      |                 | F-entries 1.73* 2.03** 1.42- 2.36**                                                                                                                                   |
|              |                  |          |             |      |      |      |                 | LSD (P=.05) .13 .20 .12 .31                                                                                                                                           |
|              |                  |          |             |      |      |      |                 | CV (%) 11.5 11.3 10.7 7.7                                                                                                                                             |

\*( ) = proprietary variety



1973 Northeast Regional Alfalfa Trial Series  
Location: Rock Springs, Pa. 1974 Data

AL-73-1A

(Data = Tons/Acre @ 12% M)

| Rand.<br>No.               | Entry            | Origin*  | N.Y.<br>Lot No. | 6/11 | 7/31 | 9/25 | Season     |       | Adj.<br>Total |
|----------------------------|------------------|----------|-----------------|------|------|------|------------|-------|---------------|
|                            |                  |          |                 |      |      |      | Total      | Total |               |
| 1                          | WL-311           | (WL)     | (73-4)          | 2.03 | 1.46 | 1.19 | 4.67       | 4.68  |               |
| 2                          | WL-219           | (WL)     | (73-5)          | 1.68 | 1.42 | 1.03 | 4.12       | 4.13  |               |
| 3                          | K1-5             | (NK)     | (73-23)         | 2.08 | 1.35 | 1.18 | 4.62       | 4.61  |               |
| 4                          | K3-7             | (NK)     | (73-22)         | 1.95 | 1.48 | 1.10 | 4.52       | 4.56  |               |
| 5                          | N7-5             | (NK)     | (73-24)         | 2.20 | 1.46 | 1.03 | 4.70       | 4.81  |               |
| 6                          | 131              | (DeKalb) | (73-14)         | 1.94 | 1.40 | 1.10 | 4.44       | 4.39  |               |
| 7                          | JE-1             | (AT)     | (73-25)         | 1.86 | 1.48 | 1.02 | 4.36       | 4.39  |               |
| 8                          | JG-1             | (AT)     | (73-26)         | 2.00 | 1.41 | 1.09 | 4.49       | 4.53  |               |
| 9                          | RP-103           | (RP)     | (73-15)         | 2.04 | 1.39 | .99  | 4.42       | 4.41  |               |
| 10                         | Nugget           | (RP)     | (73-16)         | 2.00 | 1.39 | 1.10 | 4.49       | 4.47  |               |
| 11                         | T4X-201          | (Tew.)   | (73-9)          | 2.01 | 1.39 | .82  | 4.23       | 4.14  |               |
| 12                         | T3X-206          | (Tew.)   | (73-10)         | 1.87 | 1.53 | 1.00 | 4.41       | 4.32  |               |
| 13                         | T3X-262          | (Tew.)   | (73-11)         | 1.78 | 1.36 | .97  | 4.11       | 4.06  |               |
| 14                         | Beltsville 71    | ARS      | (73-12)         | 1.77 | 1.42 | 1.12 | 4.32       | 4.38  |               |
| 15                         | Beltsville 72    | ARS      | (73-13)         | 1.85 | 1.37 | 1.19 | 4.40       | 4.39  |               |
| 16                         | D-69             | Va.      | (73-8)          | 1.71 | 1.48 | 1.14 | 4.32       | 4.35  |               |
| 17                         | Agate            | Minn.    | (73-28)         | 2.07 | 1.35 | .91  | 4.32       | 4.27  |               |
| 18                         | Weevlchek        | (FFR)    | (73-7)          | 1.96 | 1.36 | 1.12 | 4.44       | 4.47  |               |
| 19                         | Vernal           | Wisc.    | (73-46)         | 2.31 | 1.30 | .99  | 4.60       | 4.59  |               |
| 20                         | Saranac          | NY       | (73-20)         | 1.85 | 1.34 | 1.09 | 4.28       | 4.22  |               |
| 21                         | Iroquois         | NY       | (73-19)         | 2.17 | 1.40 | 1.10 | 4.68       | 4.70  |               |
| 22                         | Syn. L (Honeoye) | NY       | (73-17)         | 1.96 | 1.48 | 1.08 | 4.51       | 4.53  |               |
| 23                         | Hi Saponin       | MSU      | (73-2)          | 2.01 | 1.61 | 1.17 | 4.78       | 4.84  |               |
| 24                         | Low Saponin      | MSU      | (73-3)          | 1.83 | 1.33 | 1.12 | 4.27       | 4.31  |               |
| 25                         | 530              | (AT)     | (73-1)          | 1.88 | 1.33 | 1.10 | 4.31       | 4.28  |               |
| *( ) = proprietary variety |                  |          |                 |      |      |      | Ave.       | 4.43  | 4.43          |
| F-entries                  |                  |          |                 |      |      |      | 6.43**     | 1.47- | 2.19**        |
| LSD (P=.05)                |                  |          |                 |      |      |      | .10        | .42   | .38           |
| CV (%)                     |                  |          |                 |      |      |      | 7.9        | 8.0   | 7.5           |
|                            |                  |          |                 |      |      |      | Efficiency | 112%  |               |



1973 Northeast Regional Alfalfa Trial Series  
Location: Storrs, Conn. 1974 Data

(Data = Tons/Acre @ 12% M)

| Rand.<br>No.                  | Entry            | Origin*  | N.Y.<br>Lot No. | 6/5   | 7/18  | 8/28   | Season<br>Total |
|-------------------------------|------------------|----------|-----------------|-------|-------|--------|-----------------|
| 1                             | WL-311           | (WL)     | 73-4            | 2.10  | 1.89  | 1.53   | 5.53            |
| 2                             | WL-219           | (WL)     | 73-5            | 2.20  | 1.75  | 1.51   | 5.45            |
| 3                             | K1-5             | (NK)     | 73-23           | 1.80  | 1.78  | 1.69   | 5.27            |
| 4                             | K3-7             | (NK)     | 73-22           | 1.98  | 1.62  | 1.54   | 5.14            |
| 5                             | N7-5             | (NK)     | 73-24           | 2.42  | 1.71  | 1.50   | 5.62            |
| 6                             | 131              | (DeKalb) | 73-14           | 2.16  | 1.62  | 1.55   | 5.33            |
| 7                             | JE-1             | (AT)     | 73-25           | 1.88  | 1.60  | 1.57   | 5.05            |
| 8                             | JG-1             | (AT)     | 73-26           | 1.85  | 1.73  | 1.56   | 5.14            |
| 9                             | RP-103           | (RP)     | 73-15           | 2.27  | 1.80  | 1.51   | 5.58            |
| 10                            | Nugget           | (RP)     | 73-16           | 1.88  | 1.75  | 1.60   | 5.23            |
| 11                            | T4X-201          | (Tew.)   | 73-9            | 1.87  | 1.89  | 1.58   | 5.34            |
| 12                            | T3X-206          | (Tew.)   | 73-10           | 2.01  | 1.73  | 1.49   | 5.22            |
| 13                            | T3X-262          | (Tew.)   | 73-11           | 2.04  | 1.64  | 1.45   | 5.13            |
| 14                            | Beltsville 71    | ARS      | 73-12           | 2.04  | 1.71  | 1.58   | 5.33            |
| 15                            | Beltsville 72    | ARS      | 73-13           | 1.98  | 1.62  | 1.73   | 5.33            |
| 16                            | D-69             | va.      | 73-8            | 1.97  | 1.69  | 1.53   | 5.20            |
| 17                            | Agate            | Minn.    | 73-28           | 1.88  | 1.58  | 1.36   | 4.82            |
| 18                            | Weevlc hek       | (FFR)    | 73-7            | 2.14  | 1.60  | 1.71   | 5.45            |
| 19                            | Vernal           | Wisc.    | 72-46           | 2.03  | 1.81  | 1.53   | 5.37            |
| 20                            | Saranac          | NY       | 73-20           | 2.19  | 1.77  | 1.56   | 5.51            |
| 21                            | Iroquois         | NY       | 73-19           | 2.13  | 1.65  | 1.65   | 5.43            |
| 22                            | Syn. L (Honeoye) | NY       | 73-17           | 2.27  | 1.72  | 1.57   | 5.56            |
| * ( ) = proprietary varieties |                  |          |                 | Ave.  | 1.71  | 1.56   | 5.32            |
| F-entries                     |                  |          |                 | 1.16- | 1.54- | 2.63** | 1.24-           |
| LSD (P=.05)                   |                  |          |                 | .42   | .20   | .15    | .50             |
| CV (%)                        |                  |          |                 | 16.4  | 9.5   | 7.4    | 7.5             |





1973 Northeast Regional Alfalfa Trial Series  
Location: New Ketola Field, Ithaca, N. Y. 1974 Data

Yield - Tons/Acre @ 12% M

| Rand.<br>No. | Entry         | Origin*  | NY<br>Lot # | 6/4  | 7/16 | 9/4  | Season |       | Adj.<br>Total | Notes:                                                                                                                                                                                                                            |
|--------------|---------------|----------|-------------|------|------|------|--------|-------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |               |          |             |      |      |      | Total  | Total |               |                                                                                                                                                                                                                                   |
| 1            | WL-311        | (WL)     | (73-4)      | 2.09 | 1.49 | .88  | 4.46   | 4.41  | (1)           | This location is only moderately well-drained and fairly shallow. Drought cut production in late summer.                                                                                                                          |
| 2            | WL-219        | (WL)     | (73-5)      | 2.23 | 1.48 | .88  | 4.60   | 4.45  |               |                                                                                                                                                                                                                                   |
| 3            | K1-5          | (NK)     | (73-23)     | 2.17 | 1.52 | .90  | 4.59   | 4.49  |               |                                                                                                                                                                                                                                   |
| 4            | K3-7          | (NK)     | (73-22)     | 2.21 | 1.55 | 1.00 | 4.76   | 4.77  |               |                                                                                                                                                                                                                                   |
| 5            | N7-5          | (NK)     | (73-24)     | 2.27 | 1.33 | .82  | 4.42   | 4.45  |               |                                                                                                                                                                                                                                   |
| 6            | 131           | (DeKalb) | (73-14)     | 2.02 | 1.39 | .86  | 4.28   | 4.29  |               | (2) Most severe symptoms of anthracnose yet observed in the Ithaca area were found in some plots of susceptible entries in late summer. Probably will affect yields of some plots next season. Reason for showing here not known. |
| 7            | JE-1          | (AT)     | (73-25)     | 2.23 | 1.33 | .81  | 4.38   | 4.41  |               |                                                                                                                                                                                                                                   |
| 8            | JG-1          | (AT)     | (73-26)     | 2.19 | 1.37 | .76  | 4.32   | 4.21  |               |                                                                                                                                                                                                                                   |
| 9            | RP-103        | (RP)     | (73-15)     | 2.45 | 1.56 | .95  | 4.96   | 4.87  |               |                                                                                                                                                                                                                                   |
| 10           | Nugget        | (RP)     | (73-16)     | 2.35 | 1.40 | .81  | 4.56   | 4.55  |               |                                                                                                                                                                                                                                   |
| 11           | T4X-201       | (Tew.)   | (73-9)      | 2.09 | 1.42 | .79  | 4.29   | 4.40  |               | 1-2 weevil per stem at 1st harvest. Stubble sprayed & no damage resulted.                                                                                                                                                         |
| 12           | T3X-206       | (Tew.)   | (73-10)     | 2.29 | 1.49 | .80  | 4.57   | 4.61  |               |                                                                                                                                                                                                                                   |
| 13           | T3X-262       | (Tew.)   | (73-11)     | 2.20 | 1.57 | .87  | 4.64   | 4.56  |               |                                                                                                                                                                                                                                   |
| 14           | Beltsville-71 | ARS      | (73-12)     | 2.05 | 1.33 | .84  | 4.22   | 4.27  |               |                                                                                                                                                                                                                                   |
| 15           | Beltsville-72 | ARS      | (73-13)     | 2.11 | 1.48 | .84  | 4.43   | 4.38  |               |                                                                                                                                                                                                                                   |
| 16           | D-69          | Va.      | (73-8)      | 2.34 | 1.60 | .82  | 4.76   | 4.49  |               | (3)                                                                                                                                                                                                                               |
| 17           | Agate         | Minn.    | (73-28)     | 2.15 | 1.30 | .74  | 4.19   | 4.32  |               |                                                                                                                                                                                                                                   |
| 18           | Weevlchek     | (FFR)    | (73-7)      | 2.26 | 1.37 | .86  | 4.49   | 4.50  |               |                                                                                                                                                                                                                                   |
| 19           | Vernal        | Wisc.    | (73-46)     | 2.16 | 1.39 | .74  | 4.29   | 4.42  |               |                                                                                                                                                                                                                                   |
| 20           | Saranac       | NY       | (73-20)     | 2.16 | 1.43 | .84  | 4.43   | 4.67  |               |                                                                                                                                                                                                                                   |
| 21           | Iroquois      | NY       | (73-19)     | 2.13 | 1.43 | .83  | 4.39   | 4.64  |               |                                                                                                                                                                                                                                   |
| 22           | Honeoye       | NY       | (73-17)     | 2.28 | 1.57 | .92  | 4.77   | 4.72  |               |                                                                                                                                                                                                                                   |
| 23           | Hi Saponin    | MSU      | (73-2)      | 2.21 | 1.23 | .71  | 4.15   | 4.03  |               |                                                                                                                                                                                                                                   |
| 24           | Low Saponin   | MSU      | (73-3)      | 1.95 | 1.18 | .57  | 3.70   | 3.69  |               |                                                                                                                                                                                                                                   |
| 25           | 530           | (AT)     | (73-1)      | 2.08 | 1.44 | .88  | 4.40   | 4.46  |               |                                                                                                                                                                                                                                   |

\*( ) = proprietary varieties

|             |        |        |        |        |        |
|-------------|--------|--------|--------|--------|--------|
| $\bar{X}$   | 2.19   | 1.43   | .83    | 4.44   | 4.44   |
| F-entries   | 2.15** | 2.94** | 3.72** | 2.94** | 7.22** |
| LSD (P=.05) | .22    | .18    | .13    | .41    | .26    |
| CV (%)      | 8.5    | 10.8   | 13.1   | 8.1    | 4.9    |

Effic. 279%



## 1973 Northeast Regional Alfalfa Trial Series

Location: McGowan Field #11, Ithaca, N. Y.

Yield - Tons/Acre @ 12% M

| Rand.<br>No. | Entry         | Origin*  | NY<br>Lot # | 6/4  | 7/16 | 9/4  | Season |       | Notes:                                                                                                                                                                                                                                                                                                                             |
|--------------|---------------|----------|-------------|------|------|------|--------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              |               |          |             |      |      |      | Total  | Total |                                                                                                                                                                                                                                                                                                                                    |
| 1            | WL-311        | (WL)     | (73-4)      | 2.42 | 1.66 | 1.77 | 5.84   | (1)   | This is a good location with full stands and excellent production but there was variability within reps. in the second and third cuts due to drouth effects on one year old stands. These would have been controlled with a lattice design and quite probably will not show up with the deeper root systems of second year stands. |
| 2            | WL-219        | (WL)     | (73-5)      | 2.82 | 2.08 | 2.02 | 6.92   |       |                                                                                                                                                                                                                                                                                                                                    |
| 3            | K1-5          | (NK)     | (73-23)     | 2.67 | 1.83 | 1.91 | 6.42   |       |                                                                                                                                                                                                                                                                                                                                    |
| 4            | K3-7          | (NK)     | (73-22)     | 2.77 | 1.85 | 1.90 | 6.51   |       |                                                                                                                                                                                                                                                                                                                                    |
| 5            | N7-5          | (NK)     | (73-24)     | 2.68 | 1.23 | 1.45 | 5.35   |       |                                                                                                                                                                                                                                                                                                                                    |
| 6            | 131           | (DeKalb) | (73-14)     | 2.63 | 1.83 | 1.99 | 6.46   |       |                                                                                                                                                                                                                                                                                                                                    |
| 7            | JE-1          | (AT)     | (73-25)     | 2.48 | 1.89 | 1.66 | 6.03   |       |                                                                                                                                                                                                                                                                                                                                    |
| 8            | JG-1          | (AT)     | (73-25)     | 2.67 | 1.94 | 1.91 | 6.52   |       |                                                                                                                                                                                                                                                                                                                                    |
| 9            | RP-103        | (RP)     | (73-15)     | 2.89 | 1.90 | 1.83 | 6.63   |       |                                                                                                                                                                                                                                                                                                                                    |
| 10           | Nugget        | (RP)     | (73-16)     | 2.88 | 1.86 | 1.76 | 6.49   |       |                                                                                                                                                                                                                                                                                                                                    |
| 11           | T4X-201       | (Tew.)   | (73-9)      | 2.59 | 2.10 | 1.98 | 6.67   |       |                                                                                                                                                                                                                                                                                                                                    |
| 12           | T3X-206       | (Tew.)   | (73-10)     | 2.73 | 2.07 | 2.02 | 6.82   |       |                                                                                                                                                                                                                                                                                                                                    |
| 13           | T3X-262       | (Tew.)   | (73-11)     | 2.27 | 1.72 | 1.83 | 5.82   |       |                                                                                                                                                                                                                                                                                                                                    |
| 14           | Beltsville-71 | ARS      | (73-12)     | 2.61 | 1.95 | 2.15 | 6.72   |       |                                                                                                                                                                                                                                                                                                                                    |
| 15           | Beltsville-72 | ARS      | (73-13)     | 2.66 | 1.96 | 1.86 | 6.48   |       |                                                                                                                                                                                                                                                                                                                                    |
| 16           | D-69          | Va.      | (73-8)      | 2.62 | 2.20 | 2.05 | 6.87   |       |                                                                                                                                                                                                                                                                                                                                    |
| 17           | Agate         | Minn.    | (73-28)     | 2.51 | 1.71 | 1.58 | 5.79   |       |                                                                                                                                                                                                                                                                                                                                    |
| 18           | Weevlchek     | (FFR)    | (73-7)      | 2.80 | 1.86 | 1.88 | 6.55   |       |                                                                                                                                                                                                                                                                                                                                    |
| 19           | Vernal        | Wisc.    | (72-46)     | 2.68 | 1.90 | 1.79 | 6.37   |       |                                                                                                                                                                                                                                                                                                                                    |
| 20           | Saranac       | NY       | (73-20)     | 2.85 | 1.84 | 1.87 | 6.56   |       |                                                                                                                                                                                                                                                                                                                                    |
| 21           | Iroquois      | NY       | (73-19)     | 2.85 | 1.96 | 1.86 | 6.67   |       |                                                                                                                                                                                                                                                                                                                                    |
| 22           | Honeoye       | NY       | (73-17)     | 2.74 | 2.08 | 1.92 | 6.74   |       |                                                                                                                                                                                                                                                                                                                                    |

\*() = proprietary varieties

Ave.

## F-entries

LSD ( $P=.05$ )

CV (%)



1972 Northeast Regional Alfalfa Trial - Series C  
Location: Storrs, Conn. 1974 Data

Yield - Tons/Acre @ 12% M

| Rand.<br>No. | Entry           | Origin  | N.Y.<br>Lot # | 6/4    | 7/22   | Season |        | 1973<br>Total | 73-74<br>Ave. |
|--------------|-----------------|---------|---------------|--------|--------|--------|--------|---------------|---------------|
|              |                 |         |               |        |        | Total  | Total  |               |               |
| 1            | Weevlchek       | FFR     | (71-5)        | 2.60   | 1.55   | .51    | 4.66   | 4.75          | 4.70          |
| 2            | Team            | (ARS)   | (69-6)        | 2.28   | 1.58   | .58    | 4.44   | 5.03          | 4.73          |
| 3            | WL-307          | WL      | (72-22)       | 2.19   | 1.48   | .55    | 4.22   | 4.28          | 4.25          |
| 4            | WL-309          | WL      | (72-23)       | 2.47   | 1.74   | .63    | 4.83   | 5.01          | 4.92          |
| 5            | 520             | AT      | (72-24)       | 2.62   | 1.48   | .58    | 4.68   | 4.90          | 4.79          |
| 6            | 530             | AT      | (72-25)       | 2.38   | 1.64   | .65    | 4.66   | 4.90          | 4.78          |
| 7            | K1-10           | NK      | (72-11)       | 2.60   | 1.72   | .65    | 4.97   | 5.13          | 5.05          |
| 8            | K0-6            | NK      | (72-12)       | 2.24   | 1.69   | .67    | 4.60   | 4.69          | 4.64          |
| 9            | Saranac         | (NY)    | (72-47)       | 2.77   | 1.76   | .64    | 5.16   | 5.12          | 5.14          |
| 10           | Iroquois        | (NY)    | (72-27)       | 2.45   | 1.64   | .58    | 4.67   | 5.10          | 4.88          |
| 11           | Vernal          | (Wisc.) | (72-46)       | 2.23   | 1.38   | .42    | 4.03   | 4.84          | 4.43          |
| 12           | Kanza           | (Kans.) | (72-45)       | 2.16   | 1.41   | .53    | 4.10   | 4.44          | 4.27          |
| 13           | Storrs Poly Cr. | (Conn.) |               | 2.30   | 1.53   | .47    | 4.30   | 4.73          | 4.51          |
| 14           | N7-5            | NK      |               | 2.08   | 1.38   | .43    | 3.89   | 4.59          | 4.24          |
| 15           | K0-3            | NK      |               | 2.11   | 1.33   | .41    | 3.85   | 4.34          | 4.09          |
| 16           | K8-607          | NK      |               | 2.15   | 1.34   | .33    | 3.82   | 4.41          | 4.11          |
|              | Ave.            |         |               | 2.35   | 1.54   | .54    | 4.43   | 4.77          | 4.60          |
|              | F-entries       |         |               | 3.53** | 4.37** | 5.08** | 6.57** | 3.76**        |               |
|              | LSD (P=.05)     |         |               | .32    | .20    | .13    | .46    | .42           |               |
|              | CV (%)          |         |               | 10.6   | 10.0   | 18.5   | 8.1    | 6.9           |               |



1972 Northeast Regional Alfalfa Trial - Series C  
Location: Helfer Field #3, Ithaca, N.Y. 1974 Data

Yield - Tons/Acre @ 12% M

| Rand.<br>No. | Entry     | Origin  | N.Y.<br>Lot # | 6/10   | 7/22   | 9/9    | Season |        | 73-74<br>Ave. |
|--------------|-----------|---------|---------------|--------|--------|--------|--------|--------|---------------|
|              |           |         |               |        |        |        | Total  | Total  |               |
| 1            | Weevlchek | FFR     | (71-5)        | 2.65   | 1.58   | 1.12   | 5.35   | 4.71   | 5.03          |
| 2            | Team      | (ARS)   | (69-6)        | 2.58   | 1.50   | 1.09   | 5.18   | 3.84   | 4.51          |
| 3            | WL-307    | WL      | (72-22)       | 2.51   | 1.73   | 1.13   | 5.37   | 5.18   | 5.27          |
| 4            | WL-309    | WL      | (72-23)       | 2.42   | 1.67   | 1.22   | 5.31   | 5.57   | 5.44          |
| 5            | 520       | AT      | (72-24)       | 2.71   | 1.61   | 1.23   | 5.55   | 5.02   | 5.28          |
| 6            | 530       | AT      | (72-25)       | 2.56   | 1.87   | 1.26   | 5.69   | 5.08   | 5.38          |
| 7            | K1-10     | NK      | (72-11)       | 2.71   | 1.69   | 1.26   | 5.67   | 5.18   | 5.42          |
| 8            | K0-6      | NK      | (72-12)       | 2.50   | 1.75   | 1.13   | 5.38   | 5.11   | 5.24          |
| 9            | Saranac   | (NY)    | (72-47)       | 2.72   | 1.89   | 1.30   | 5.92   | 5.72   | 5.82          |
| 10           | Iroquois  | (NY)    | (72-27)       | 2.77   | 1.83   | 1.19   | 5.80   | 5.07   | 5.43          |
| 11           | Vernal    | (Wisc.) | (72-46)       | 2.85   | 1.75   | 1.15   | 5.74   | 4.21   | 4.97          |
| 12           | Kanza     | (Kans.) | (72-45)       | 2.30   | 1.30   | .98    | 4.58   | 3.63   | 4.10          |
| Average      |           |         |               | 2.61   | 1.68   | 1.17   | 5.46   | 4.86   | 5.16          |
| F-entries    |           |         |               | 4.16** | 7.63** | 4.47** | 7.96** | 5.80** |               |
| LSD (P=.05)  |           |         |               | .22    | .17    | .12    | .36    | .76    |               |
| CV (%)       |           |         |               | 6.6    | 8.1    | 8.1    | 5.2    | 12.4   |               |

Notes: (1) This trial was summer seeded in 1972. Stands good but less even than in adjacent spring-seeded trials. 1974 data show some varieties (i.e. Vernal) picking up from the vigor differences that resulted in first production year differential. Summer seeding in New York frequently puts greater stress on stands than spring seeding.





1973 Alfalfa Variety Trial  
Location: Valatie, N.Y. 1974 Data

Yield - Tons/Acre @ 12% M

| Rand.<br>No. | Entry            | Origin | N.Y.<br>No. | 6/3    | 7/15   | 8/26   | Season<br>Total | 1974<br>Adj.<br>Total |
|--------------|------------------|--------|-------------|--------|--------|--------|-----------------|-----------------------|
| 1            | Beltsville 72    | ARS    | (73-13)     | 2.73   | 1.70   | .90    | 5.33            | 5.27                  |
| 2            | Syn. L (Honeoye) | NY     | (73-17)     | 2.82   | 1.69   | .94    | 5.45            | 5.43                  |
| 3            | 530              | AT     | (73-1)      | 2.65   | 1.60   | .83    | 5.09            | 4.97                  |
| 4            | Vernal           | Wisc.  | (72-46)     | 2.79   | 1.44   | .75    | 4.97            | 4.94                  |
| 5            | D-69             | Va.    | (73-8)      | 2.51   | 1.73   | .88    | 5.12            | 5.25                  |
| 6            | Saranac          | NY     | (73-20)     | 2.80   | 1.57   | .96    | 5.33            | 5.33                  |
| 7            | Iroquois         | NY     | (73-19)     | 2.67   | 1.56   | .92    | 5.16            | 5.10                  |
| 8            | Weevlchek        | FFR    | (73-7)      | 2.63   | 1.58   | .84    | 5.05            | 4.98                  |
| 9            | ML-Syn.          | NY     | (73-30)     | 2.12   | 1.44   | .85    | 4.41            | 4.79                  |
| 10           | AR-Syn.          | NY     | (73-29)     | 2.83   | 1.64   | .95    | 5.42            | 5.35                  |
| 11           | Beltsville 71    | ARS    | (73-12)     | 2.55   | 1.67   | .87    | 5.09            | 4.95                  |
| 12           | Kanza            | Kans.  | (72-45)     | 1.89   | 1.42   | .72    | 4.03            | 4.24                  |
| 13           | Nugget           | RP     | (73-16)     | 2.75   | 1.79   | .96    | 5.51            | 5.49                  |
| 14           | 103              | RP     | (73-15)     | 3.02   | 1.61   | .91    | 5.54            | 5.56                  |
| 15           | 305              | WL     | (73-31)     | 2.83   | 1.62   | .89    | 5.33            | 5.15                  |
| 16           | Tempo            | FFR    | (73-6)      | 2.66   | 1.57   | .90    | 5.14            | 5.16                  |
|              | Average          |        |             | 2.64   | 1.60   | .88    | 5.12            | 5.12                  |
|              | F-entries        |        |             | 5.49** | 2.62** | 2.99** | 5.76**          | 13.56**               |
|              | LSD (P=.05)      |        |             | .34    | .18    | .12    | .48             | .25                   |
|              | CV (%)           |        |             | 10.0   | 9.1    | 10.2   | 7.2             | 3.8                   |

Effic. = 362%



1972 Reselect Saranac and Mark II Trial  
Location: Ketola #3, Ithaca, N.Y. 1974 Data

Yield - Tons/Acre @ 12% M

| Rand.<br>No. | Entry                 | N.Y.<br>Lot # | 6/12  | 7/25  | 9/12  | Season<br>Total | 1974  |       | 1973<br>Total | 73-74<br>Ave. |
|--------------|-----------------------|---------------|-------|-------|-------|-----------------|-------|-------|---------------|---------------|
|              |                       |               |       |       |       |                 | Adj.  | Total |               |               |
| 1            | Reselect Super Sar-20 | (72-34)       | 2.69  | 1.65  | 1.11  | 5.45            | 5.44  | 5.52  | 5.52          | 5.48          |
| 2            | Saranac               | (72-26)       | 2.63  | 1.54  | 1.06  | 5.23            | 5.24  | 5.50  | 5.50          | 5.37          |
| 3            | Reselect Saranac-70   | (72-35)       | 2.66  | 1.56  | 1.09  | 5.30            | 5.33  | 5.64  | 5.64          | 5.48          |
| 4            | Iroquois              | (72-27)       | 2.55  | 1.50  | .99   | 5.05            | 5.03  | 5.32  | 5.32          | 5.17          |
| 5            | Mark II Super         | (72-36)       | 2.75  | 1.67  | 1.12  | 5.54            | 5.52  | 5.35  | 5.35          | 5.43          |
| 6            | Mark II Clonal        | (72-37)       | 2.60  | 1.45  | .95   | 5.01            | 5.04  | 4.80  | 4.80          | 4.92          |
| 7            | Mark II               |               | 2.59  | 1.49  | 1.09  | 5.18            | 5.16  | 4.84  | 4.84          | 5.00          |
| 8            | Mark II PC            | (72-38)       | 2.49  | 1.63  | 1.10  | 5.22            | 5.23  | 5.48  | 5.48          | 5.35          |
| 9            | Narragansett          |               | 2.62  | 1.72  | 1.13  | 5.47            | 5.37  | 5.60  | 5.60          | 5.48          |
| 10           | T3X-101 (Tew.)        | (72-2)        | 2.50  | 1.53  | 1.07  | 5.10            | 5.17  | 5.54  | 5.54          | 5.35          |
| 11           | KO-6 (NK)             | (72-12)       | 2.60  | 1.69  | 1.02  | 5.31            | 5.31  | 5.53  | 5.53          | 5.42          |
| 12           | 71 CaF (WL)           | (72-19)       | 2.55  | 1.66  | 1.14  | 5.35            | 5.36  | 5.57  | 5.57          | 5.46          |
| 13           | 72-Py-1 (WL)          | (72-20)       | 2.42  | 1.66  | 1.14  | 5.21            | 5.25  | 5.33  | 5.33          | 5.29          |
| 14           | 72-WR-ANR-1 (WL)      | (72-21)       | 2.44  | 1.70  | 1.13  | 5.27            | 5.26  | 5.44  | 5.44          | 5.35          |
| 15           | Beltsville 71         | (72-15)       | 2.55  | 1.50  | 1.03  | 5.08            | 5.05  | 5.41  | 5.41          | 5.23          |
| 16           | Cayuga                |               | 2.45  | 1.64  | 1.13  | 5.21            | 5.23  | 5.40  | 5.40          | 5.31          |
| Average      |                       |               | 2.57  | 1.60  | 1.08  | 5.25            | 5.25  | 5.39  | 5.39          | 5.32          |
| F-entries    |                       |               | 1.71- | 2.17* | 2.10* | 1.87*           | 1.74- | 1.98* | 1.98*         |               |
| LSD (P=.05)  |                       |               | .20   | .16   | .11   | .31             | .30   | .48   | .48           |               |
| CV (%)       |                       |               | 6.2   | 8.2   | 7.8   | 4.8             | 4.5   | 7.1   | 7.1           |               |
| Effic.       |                       |               |       |       |       |                 | 111%  | 110%  | 110%          |               |



1973 Alfalfa Variety x Mgt. Trial  
Location: McGowan Field, Ithaca, N.Y. 1974 Data

Yield - Tons/Acre @ 12% M

| Rand.<br>No. | Variety     | Mgt. System A (4 Hvsts./Season) |         |         |        |         | Mgt. System B (3 Hvsts./Season) |       |        |         |         |               |
|--------------|-------------|---------------------------------|---------|---------|--------|---------|---------------------------------|-------|--------|---------|---------|---------------|
|              |             | 5/30                            | 7/5     | 8/16    | 10/5   | Season  |                                 | 6/7   | 7/19   | 9/6     | Season  |               |
|              |             |                                 |         |         |        | Total   | Adj.<br>Total                   |       |        |         | Total   | Adj.<br>Total |
| 1            | Saranac     | 2.50                            | 1.79    | 1.73    | 1.11   | 7.13    | 7.13                            | 3.11  | 2.21   | 1.75    | 7.07    | 6.99          |
| 2            | Iroquois    | 2.55                            | 1.70    | 1.65    | 1.04   | 6.94    | 6.94                            | 3.16  | 2.11   | 1.86    | 7.12    | 7.20          |
| 3            | Honeoye     | 2.68                            | 1.86    | 1.78    | 1.20   | 7.42    | 7.42                            | 3.31  | 2.36   | 1.88    | 7.56    | 7.55          |
| 4            | Belt. 72    | 2.58                            | 1.81    | 1.78    | 1.12   | 7.29    | 7.29                            | 3.20  | 2.25   | 1.83    | 7.28    | 7.33          |
| 5            | Ramsey      | 2.37                            | 1.33    | 1.38    | .88    | 5.96    | 5.96                            | 2.86  | 1.78   | 1.36    | 5.99    | 5.94          |
| 6            | Weevlchek   | 2.59                            | 1.61    | 1.57    | 1.09   | 6.87    | 6.87                            | 3.27  | 1.93   | 1.54    | 6.75    | 6.79          |
| 7            | Vernal      | 2.43                            | 1.46    | 1.56    | .95    | 6.40    | 6.40                            | 2.99  | 1.90   | 1.52    | 6.41    | 6.42          |
| 8            | ML Syn.     | 2.39                            | 1.60    | 1.53    | 1.11   | 6.63    | 6.63                            | 2.77  | 2.03   | 1.60    | 6.39    | 6.34          |
| 9            | Saranac AR  | 2.41                            | 1.68    | 1.71    | 1.04   | 6.84    | 6.84                            | 3.02  | 2.19   | 1.83    | 7.04    | 7.06          |
|              | Ave.        | 2.50                            | 1.65    | 1.63    | 1.06   | 6.84    | 6.84                            | 3.08  | 2.08   | 1.69    | 6.85    | 6.85          |
|              | F-entries   | 1.52-                           | 12.55** | 10.14** | 8.24** | 10.01** | 10.01**                         | 2.86* | 5.73** | 13.60** | 10.60** | 13.30**       |
|              | LSD (P=.05) | .25                             | .14     | .12     | .09    | .42     | .42                             | .32   | .22    | .15     | .44     | .40           |
|              | CV (%)      | 7.0                             | 5.7     | 5.1     | 6.3    | 4.3     | 4.3                             | 7.0   | 7.6    | 6.0     | 4.4     | 4.2           |

| Rand.<br>No. | Variety     | Mgt. System C (3 Hvsts./Season) |        |         |                 | Average Yield over<br>3 Mgt. Systems |      |
|--------------|-------------|---------------------------------|--------|---------|-----------------|--------------------------------------|------|
|              |             | 6/17                            | 7/29   | 9/16    | Season<br>Total | Adj.<br>Total                        |      |
| 1            | Saranac     | 3.57                            | 2.16   | 1.77    | 7.51            | 7.50                                 | 7.21 |
| 2            | Iroquois    | 3.62                            | 1.99   | 1.57    | 7.17            | 7.16                                 | 7.10 |
| 3            | Honeoye     | 3.82                            | 2.10   | 1.87    | 7.78            | 7.78                                 | 7.58 |
| 4            | Belt. 72    | 3.37                            | 2.10   | 1.63    | 7.09            | 7.09                                 | 7.24 |
| 5            | Ramsey      | 3.15                            | 1.60   | 1.27    | 6.03            | 6.03                                 | 5.98 |
| 6            | Weevlchek   | 3.35                            | 1.90   | 1.59    | 6.84            | 6.85                                 | 6.84 |
| 7            | Vernal      | 3.55                            | 1.89   | 1.46    | 6.90            | 6.90                                 | 6.57 |
| 8            | ML Syn.     | 3.47                            | 1.70   | 1.53    | 6.71            | 6.73                                 | 6.57 |
| 9            | Saranac AR  | 3.35                            | 2.12   | 1.69    | 7.17            | 7.16                                 | 7.02 |
|              | Ave.        | 3.47                            | 1.95   | 1.60    | 7.02            | 7.02                                 | 6.90 |
|              | F-entries   | 1.26-                           | 4.18** | 12.01** | 5.51**          | 5.45**                               |      |
|              | LSD (P=.05) | .48                             | .27    | .14     | .60             | .60                                  |      |
|              | CV (%)      | 3.1                             | 9.8    | 6.8     | 6.0             | 6.0                                  |      |



1973 Alfalfa Variety x Mgt. Trial  
Location: New Ketola Field, Ithaca, N.Y.

1974 Data

Yield - Tons/Acre @ 12% M

| Rand.<br>No. | Variety     | Mgt. System A (4 Hvsts./Season) |        |        |       |        | Mgt. System B (3 Hvsts./Season) |       |        |         |        |               |
|--------------|-------------|---------------------------------|--------|--------|-------|--------|---------------------------------|-------|--------|---------|--------|---------------|
|              |             | 5/30                            | 7/5    | 8/16   | 10/5  | Season |                                 | 6/7   | 7/19   | 9/6     | Season |               |
|              |             |                                 |        |        |       | Total  | Adj.<br>Total                   |       |        |         | Total  | Adj.<br>Total |
| 1            | Saranac     | 2.12                            | 1.05   | .87    | .82   | 4.87   | 4.86                            | 2.27  | 1.45   | .90     | 4.62   | 4.65          |
| 2            | Iroquois    | 2.17                            | 1.11   | .88    | .77   | 4.93   | 4.89                            | 2.17  | 1.44   | .89     | 4.50   | 4.43          |
| 3            | Honeoye     | 2.14                            | 1.05   | .86    | .85   | 4.90   | 4.86                            | 2.33  | 1.71   | .96     | 4.99   | 5.03          |
| 4            | Belt. 72    | 2.10                            | 1.05   | .85    | .82   | 4.81   | 4.81                            | 2.29  | 1.32   | .90     | 4.51   | 4.48          |
| 5            | Ramsey      | 2.15                            | .89    | .69    | .71   | 4.44   | 4.45                            | 2.39  | 1.11   | .67     | 4.17   | 4.13          |
| 6            | Weevlchek   | 2.09                            | .99    | .91    | .91   | 4.89   | 4.86                            | 2.44  | 1.37   | .83     | 4.64   | 4.63          |
| 7            | Vernal      | 2.23                            | 1.03   | .76    | .75   | 4.77   | 4.79                            | 2.31  | 1.38   | .83     | 4.52   | 4.53          |
| 8            | ML Syn.     | 2.07                            | .93    | .72    | .84   | 4.56   | 4.56                            | 2.11  | 1.35   | .82     | 4.28   | 4.32          |
| 9            | Saranac AR  | 2.05                            | .98    | .84    | .85   | 4.71   | 4.76                            | 2.35  | 1.44   | .96     | 4.75   | 4.79          |
|              | Ave.        | 2.12                            | 1.01   | .82    | .82   | 4.76   | 4.76                            | 2.30  | 1.40   | .86     | 4.55   | 4.55          |
|              | F-entries   | .87-                            | 4.49** | 4.02** | 2.83* | 3.80** | 3.65**                          | 2.03- | 6.05** | 10.35** | 6.50** | 9.47**        |
|              | LSD (P=.05) | .17                             | .09    | .11    | .09   | .24    | .22                             | .20   | .18    | .08     | .27    | .24           |
|              | CV (%)      | 17.8                            | 6.4    | 9.4    | 8.4   | 3.6    | 3.4                             | 6.3   | 9.0    | 6.0     | 4.2    | 3.7           |

Average Yield over  
3 Mgt. Systems

| Rand.<br>No. | Variety     | Mgt. System C (3 Hvsts./Season) |        |        |                 | Average Yield over<br>3 Mgt. Systems |      |  |  |
|--------------|-------------|---------------------------------|--------|--------|-----------------|--------------------------------------|------|--|--|
|              |             | 6/17                            | 7/29   | 9/16   | Season<br>Total | Adj.<br>Total                        |      |  |  |
| 1            | Saranac     | 2.48                            | 1.55   | 1.11   | 5.15            | 5.09                                 | 4.86 |  |  |
| 2            | Iroquois    | 2.62                            | 1.49   | 1.10   | 5.20            | 5.18                                 | 4.83 |  |  |
| 3            | Honeoye     | 2.59                            | 1.81   | 1.15   | 5.54            | 5.50                                 | 5.13 |  |  |
| 4            | Belt. 72    | 2.59                            | 1.51   | 1.15   | 5.26            | 5.26                                 | 4.85 |  |  |
| 5            | Ramsey      | 2.18                            | 1.32   | 1.01   | 4.51            | 4.55                                 | 4.37 |  |  |
| 6            | Weevlchek   | 2.21                            | 1.47   | 1.15   | 4.83            | 4.83                                 | 4.77 |  |  |
| 7            | Vernal      | 2.61                            | 1.54   | 1.10   | 5.25            | 5.19                                 | 4.83 |  |  |
| 8            | ML Syn.     | 2.59                            | 1.45   | 1.03   | 5.06            | 5.10                                 | 4.66 |  |  |
| 9            | Saranac AR  | 2.48                            | 1.40   | 1.12   | 4.99            | 4.98                                 | 4.84 |  |  |
|              | Ave.        | 2.48                            | 1.50   | 1.10   | 5.09            | 5.09                                 | 4.79 |  |  |
|              | F-entries   | 3.06*                           | 3.42** | 4.30** | 8.33**          | 7.24**                               |      |  |  |
|              | LSD (P=.05) | .28                             | .21    | .07    | .29             | .28                                  |      |  |  |
|              | CV (%)      | 7.8                             | 9.7    | 4.4    | 3.9             | 3.8                                  |      |  |  |





1973 Alfalfa Variety x Mgt. Trial  
Location: Tailby Field, Ithaca, N.Y. 1974 Data

Yield - Tons/Acre @ 12% M

| Rand.<br>No. | Variety     | Mgt. System A (4 Hvsts./Season) |        |       |        |        | Mgt. System B (3 Hvsts./Season) |       |       |       |        |       |
|--------------|-------------|---------------------------------|--------|-------|--------|--------|---------------------------------|-------|-------|-------|--------|-------|
|              |             | 5/30                            | 7/5    | 8/16  | 10/5   | Season |                                 | 6/7   | 7/19  | 9/6   | Season |       |
|              |             |                                 |        |       |        | Total  | Adj.                            |       |       |       | Total  | Adj.  |
| 1            | Saranac     | 2.33                            | 1.36   | .99   | .75    | 5.42   | 5.35                            | 2.28  | 1.38  | .86   | 4.52   | 4.67  |
| 2            | Iroquois    | 2.08                            | 1.30   | .94   | .75    | 5.08   | 5.11                            | 2.38  | 1.50  | .99   | 4.88   | 4.44  |
| 3            | Honeoye     | 2.41                            | 1.26   | .85   | .67    | 5.18   | 5.25                            | 2.62  | 1.66  | .99   | 5.27   | 4.92  |
| 4            | Belt. 72    | 2.22                            | 1.23   | .74   | .67    | 4.87   | 4.91                            | 2.44  | 1.21  | .62   | 4.27   | 4.53  |
| 5            | Ramsey      | 2.15                            | 1.01   | .83   | .73    | 4.66   | 4.64                            | 2.06  | .96   | .61   | 3.63   | 3.93  |
| 6            | Weevlchek   | 2.30                            | 1.30   | .84   | .79    | 5.23   | 5.22                            | 2.47  | 1.34  | .85   | 4.65   | 4.66  |
| 7            | Vernal      | 2.36                            | 1.16   | .75   | .75    | 5.02   | 5.01                            | 2.32  | 1.36  | .77   | 4.44   | 4.39  |
| 8            | ML Syn.     | 2.05                            | 1.11   | .64   | .60    | 4.39   | 4.39                            | 2.25  | 1.28  | .78   | 4.31   | 4.31  |
| 9            | Saranac AR  | 2.31                            | 1.33   | .92   | .74    | 5.31   | 5.27                            | 2.42  | 1.33  | .92   | 4.68   | 4.82  |
|              | Ave.        | 2.25                            | 1.23   | .83   | .72    | 5.02   | 5.02                            | 2.36  | 1.34  | .82   | 4.52   | 4.52  |
|              | F-entries   | 2.23-                           | 6.24** | 1.16- | 3.41** | 2.73*  | 5.28**                          | 1.23- | 2.07- | 1.18- | 1.73-  | 1.64- |
|              | LSD (P=.05) | .24                             | .14    | .30   | .09    | .56    | .40                             | .40   | .38   | .36   | .96    | .65   |
|              | CV (%)      | 7.4                             | 7.7    | 24.9  | 8.9    | 7.9    | 5.7                             | 11.9  | 19.8  | 31.4  | 15.1   | 10.3  |

| Rand.<br>No. | Variety     | Mgt. System C (3 Hvsts./Season) |       |       |                 | Average Yield over<br>3 Mgt. Systems |      |
|--------------|-------------|---------------------------------|-------|-------|-----------------|--------------------------------------|------|
|              |             | 6/17                            | 7/29  | 9/16  | Season<br>Total | Adj.<br>Total                        |      |
| 1            | Saranac     | 2.17                            | 1.22  | .94   | 4.32            | 4.37                                 | 4.79 |
| 2            | Iroquois    | 2.43                            | 1.18  | 1.02  | 4.62            | 4.63                                 | 4.72 |
| 3            | Honeoye     | 2.33                            | 1.41  | 1.14  | 4.88            | 4.68                                 | 4.95 |
| 4            | Belt. 72    | 2.52                            | 1.26  | 1.03  | 4.80            | 4.78                                 | 4.74 |
| 5            | Ramsey      | 2.43                            | .95   | .87   | 4.25            | 4.39                                 | 4.32 |
| 6            | Weevlchek   | 2.34                            | 1.30  | 1.03  | 4.66            | 4.75                                 | 4.87 |
| 7            | Vernal      | 1.92                            | 1.09  | .99   | 4.00            | 3.99                                 | 4.46 |
| 8            | ML Syn.     | 2.10                            | 1.09  | .97   | 4.16            | 4.04                                 | 4.24 |
| 9            | Saranac AR  | 2.35                            | 1.30  | 1.02  | 4.67            | 4.75                                 | 4.94 |
|              | Ave.        | 2.29                            | 1.20  | 1.00  | 4.49            | 4.49                                 | 4.67 |
|              | F-entries   | 1.15-                           | 2.47* | 1.21- | 1.87-           | 2.40*                                |      |
|              | LSD (P=.05) | .50                             | .25   | .18   | .64             | .56                                  |      |
|              | CV (%)      | 15.3                            | 14.5  | 13.2  | 10.0            | 8.8                                  |      |



1971 Alfalfa Trial - Weevil Resistant Strains  
Location: McGowan Field #15, Ithaca, N.Y. 1974 Data

Yield - Tons/Acre @ 12% M

| Rand.<br>No. | Entry       | A. No Chemical Control |        |        |                 | B. Weevil Control |      |       |                 |
|--------------|-------------|------------------------|--------|--------|-----------------|-------------------|------|-------|-----------------|
|              |             | 6/11                   | 7/23   | 9/11   | Season<br>Total | 6/11              | 7/23 | 9/11  | Season<br>Total |
| 1            | WL-215      | 2.46                   | 1.72   | 1.28   | 5.46            | 2.64              | 1.90 | 1.29  | 5.83            |
| 2            | K9-100      | 2.50                   | 1.90   | 1.47   | 5.87            | 2.83              | 1.89 | 1.38  | 6.11            |
| 3            | Weevilchek  | 2.47                   | 1.66   | 1.15   | 5.28            | 2.58              | 1.88 | 1.36  | 5.82            |
| 4            | Team        | 2.19                   | 1.44   | 1.28   | 4.91            | 2.49              | 1.76 | 1.29  | 5.54            |
| 5            | Saranac     | 2.88                   | 1.76   | 1.37   | 6.01            | 3.00              | 1.83 | 1.37  | 6.20            |
| 6            | Vernal      | 2.40                   | 1.66   | 1.13   | 5.19            | 2.63              | 1.83 | 1.20  | 5.65            |
|              | Ave.        | 2.48                   | 1.69   | 1.28   | 5.45            | 2.69              | 1.85 | 1.31  | 5.86            |
|              | F-entries   | 3.18*                  | 4.79** | 4.84** | 4.76**          | 3.11*             | .47- | 1.44- | 1.83-           |
|              | LSD (P=.05) | .32                    | .18    | .16    | .50             | .28               | .20  | .15   | .49             |
|              | CV (%)      | 11.2                   | 9.2    | 10.3   | 7.9             | 8.8               | 9.6  | 10.0  | 7.2             |

| Rand.<br>No. | Entry      | Average Yield over both Mgt.s. |      |      |               | Differences in Yield with<br>Chemical Control of Insects |      |      |               |
|--------------|------------|--------------------------------|------|------|---------------|----------------------------------------------------------|------|------|---------------|
|              |            | 1972                           | 1973 | 1974 | 72-74<br>Ave. | 1972                                                     | 1973 | 1974 | 72-74<br>Ave. |
| 1            | WL-215     | 5.66                           | 5.92 | 5.64 | 5.74          | -.08                                                     | +.18 | +.37 | +.16          |
| 2            | K9-100     | 6.03                           | 6.00 | 5.99 | 6.01          | +.38                                                     | +.36 | +.24 | +.33          |
| 3            | Weevilchek | 5.70                           | 5.80 | 5.55 | 5.68          | +.41                                                     | +.40 | +.54 | +.45          |
| 4            | Team       | 5.44                           | 5.55 | 5.22 | 5.40          | +.44                                                     | +.19 | +.63 | +.42          |
| 5            | Saranac    | 6.15                           | 6.23 | 6.10 | 6.16          | +.04                                                     | +.23 | +.19 | +.15          |
| 6            | Vernal     | 5.84                           | 5.61 | 5.42 | 5.62          | +.51                                                     | +.08 | +.46 | +.35          |
|              | Ave.       | 5.81                           | 5.85 | 5.65 | 5.77          | +.28                                                     | +.24 | +.41 | +.31          |



## 1971 Alfalfa Trial of Weevil Resistant Strains

Location: McGowan Field, Ithaca, N.Y.

- (1) This trial has information of general interest concerning variety resistance to the alfalfa weevil and effectiveness of chemical controls under current population levels of the insect in the upper part of the Northeast Region.
- (2) Four varieties selected for weevil tolerance plus Saranac and Iroquois checks were compared with and without chemical control under the same cutting management. This management is known to be optimum for highest yield and quality in the test area. First harvest is removed about June 10th with 6 or 7 week regrowth intervals. It has been found that this schedule has first harvest very close to peak larval activity but before any real leaf loss from larvae feeding occurs. With this schedule a moderate larvae population may survive the initial harvest and cause damage by feeding on crown buds and new growth. Yield is lost not by dry matter destroyed but by delayed regrowth in which part of the growing season is lost with no production. During the early years of weevil infestation when populations were very high, it could be demonstrated that stands were damaged and occasionally destroyed by this type of weevil feeding combined with the described intensive cutting management. In recent years the weevil is present, crown bud feeding can be found but delayed regrowth is not very obvious. This trial measured the amount of damage occurring in these circumstances at the present time. A persistent insecticide was used in 2 of the 3 years of production because other studies have shown that the usual non-persistent insecticides used for weevil control are only about half as effective in terms of yield loss prevention.
- (3) Weevil populations on untreated plots were generally typical of the area. At least 50% of tips showed some weevil feeding at time of first harvest but no evidence of actual dry matter loss from feeding. The first harvest was aimed for about the 10th of June when evidence of larval activity has been peaking in this area. First cutting dates were June 9, June 8, and June 11 in 1972, 1973 and 1974 respectively.
- (4) Chemical control for the weevil (and other insects) resulted in .3 ton of additional hay equivalent per season over the 3 year period. The effects of control by the third year seem to be cumulative. Stands were not measured and there were no visual differences but yields suggest that weevil feeding was having some slight effect on stand vigor and persistence under this intensive harvest system.
- (5) There was no evidence of variety tolerance under these conditions. Saranac was highest in yield with and without control. At this station, some visible strain differences have been occasionally observed under heavy infestations on delayed harvest first growth alfalfa but never on regrowth. Vigor and speed of recovery appear to be the important factors for minimizing regrowth feeding injury.
- (6) It is reemphasized that the yield loss demonstrated here is not direct dry matter loss in weevil feeding but partial growing season loss and probable cumulative effects on stands over the production periods. Experience has shown that the best you could expect from trying to maintain protection with non-persistent insecticides would be about half the forage saved here.



1972 Alfalfa Trial - Weevil Resistant Strains  
Location: Ketola Field #3, Ithaca, N.Y. 1974 Data

Yield - Tons/Acre @ 12% M

| Rand.<br>No. | Entry         | Origin | N.Y.<br>Lot # | 6/14 | 7/26   | 9/11  | Season<br>Total | 1973<br>Total | 73-74<br>Ave. | Weevil<br>Damage<br>Score<br>(10 = most) |
|--------------|---------------|--------|---------------|------|--------|-------|-----------------|---------------|---------------|------------------------------------------|
|              |               |        |               |      |        |       |                 |               |               |                                          |
| 1            | WVR-Syn.-4    | NY     | (72-43)       | 2.64 | 1.51   | 1.02  | 5.17            | 5.97          | 5.57          | 6.2                                      |
| 2            | Team          | ARS    |               | 2.57 | 1.24   | .96   | 4.77            | 5.86          | 5.31          | 6.5                                      |
| 3            | Beltsville 71 | ARS    | (72-15)       | 2.61 | 1.33   | 1.02  | 4.95            | 5.35          | 5.15          | 6.7                                      |
| 4            | Weevlchek     | FFR    | (72-4)        | 2.67 | 1.54   | 1.06  | 5.26            | 5.73          | 5.49          | 7.7                                      |
| 5            | WL-307        | WL     | (72-22)       | 2.58 | 1.45   | .97   | 5.01            | 5.57          | 5.29          | 7.3                                      |
| 6            | 2 x 4         | FFR    | (72-5)        | 2.58 | 1.32   | .96   | 4.86            | 5.77          | 5.31          | 7.2                                      |
| 7            | Iroquois      | NY     | (72-27)       | 2.73 | 1.50   | 1.05  | 5.28            | 6.18          | 5.73          | 7.8                                      |
| 8            | Saranac       | NY     | (72-26)       | 2.74 | 1.65   | 1.11  | 5.50            | 6.32          | 5.91          | 7.8                                      |
|              | Average       |        |               | 2.64 | 1.44   | 1.02  | 5.10            | 5.84          | 5.47          |                                          |
|              | F-entries     |        |               | .73- | 5.35** | 2.22- | 3.74**          | 5.00**        |               |                                          |
|              | LSD (P=.05)   |        |               | .22  | .16    | .10   | .36             | .40           |               |                                          |
|              | CV (%)        |        |               | 7.3  | 10.0   | 7.5   | 6.0             | 5.8           |               |                                          |

Notes: In both 1973 and 1974 about 95% of stem tips were showing some weevil feeding damage by time of first harvest. This did not appear to influence yield in either season. These were some of the heaviest infestations observed in the Ithaca area. There was a gradient of damage severity with reps. in 1974. The WVR-Syn. was visibly better in reps. where the damage was lightest. In reps., where damage was heaviest, the variety distinctions could not be made.





1972 Alfalfa Trial - Weevil Resistant Strains  
Location: Helfer Field #3, Ithaca, N.Y. 1974 Data

Yield - Tons/Acre @ 12% M

| Rand.<br>No. | Entry         | Origin | 6/14  | 7/26   | 9/11  | Season<br>Total | 1973<br>Total | 73-74<br>Ave. |
|--------------|---------------|--------|-------|--------|-------|-----------------|---------------|---------------|
| 1            | WVR Syn.-4    | NY     | 2.91  | 1.83   | 1.19  | 5.94            | 6.51          | 6.22          |
| 2            | Team          | ARS    | 3.01  | 1.64   | 1.16  | 5.82            | 6.04          | 5.93          |
| 3            | Beltsville 71 | ARS    | 2.96  | 1.71   | 1.19  | 5.87            | 5.90          | 5.88          |
| 4            | Weevlchek     | FFR    | 3.03  | 1.85   | 1.23  | 6.12            | 6.09          | 6.10          |
| 5            | WL 307        | WL     | 2.99  | 1.81   | 1.14  | 5.95            | 5.84          | 5.89          |
| 6            | 2 x 4         | FFR    | 3.00  | 1.74   | 1.13  | 5.88            | 5.82          | 5.85          |
| 7            | Iroquois      | NY     | 3.20  | 1.98   | 1.24  | 6.42            | 6.35          | 6.38          |
| 8            | Saranac       | NY     | 3.06  | 1.95   | 1.28  | 6.29            | 6.48          | 6.38          |
|              | Average       |        | 3.02  | 1.81   | 1.19  | 6.04            | 6.13          | 6.08          |
|              | F-entries     |        | 1.29- | 4.79** | 1.66- | 4.05**          | 5.36**        |               |
|              | LSD (P=.05)   |        | .21   | .15    | .11   | .31             | .34           |               |
|              | CV (%)        |        | 6.0   | 7.0    | 8.0   | 4.4             | 4.8           |               |

Notes: (1) Weevil damage on about 50% of stem tips at time of first cut June 14 in 1973 but very little damage occurred from regrowth feeding.

(2) Cut first on 6/14 in 1974 but weevil population was very light at this site and no damage was in prospect.







November 26, 1974

Contribution of the Northeast Regional Plant Introduction Station  
and Regional Project, NE-9 to the  
1974 Report of Eastern Alfalfa Nurseries  
by Desmond D. Dolan and S. W. Braverman

During the 1974 growing season, the Regional Plant Introduction Station, Geneva took evaluation notes on two alfalfa plantings: one made in 1973 and the other made in 1974. Each planting consisted of 50 introductions. Notes were taken on the following plant characteristics: uniformity, habit, vigor, plant size, crown width, number of stems per plant, size of stems, leafiness, size of leaves, color of leaves, time of blooming, time of ripe pods, flower color, pod shape, degree of damage from leafspot, leafhopper and alfalfa weevil, recovery after summer cutting, percentage winter-survival and a rating for spring-recovery or spring-vigor.

Considering the above characteristics the following introductions of Medicago falcata planted in 1973, appeared promising in their second year: P.I. 251689 USSR, 258752 USSR, 258753 USSR, 258754 USSR and 314092 USSR.

The following introductions of Medicago hybrid, presumably a cross between M. falcata and M. sativa, appear promising in their second year: P.I. 234817 Switz. and 251690 USSR.

Of 14 introductions of Medicago sativa, only two in their second growing season appear as promising as the standard cultivars. These are: P.I. 196226 India and 255962S Canada.

Field tolerance or resistance to alfalfa leafspot, Pseudopeziza medicaginis was observed in several Medicago falcata introductions as follows: P.I. 228152 USSR, 251205 Yugo., 251689 USSR, 251830 Austria, 253445 Yugo., 258751 USSR, 260246-247 Ger., 262532 USSR and 263154 USSR. P.I. 234816 Switz. (M. falcata x M. sativa) and P.I. 255962 (M. sativa) showed good field resistance to the pathogen.

1974 Planting of Alfalfa Introductions

This planting which consisted of 50 introductions was rated for the same plant characteristics. At the present time, we have only data on their first growing season and they have not yet been tested for winter-hardiness or spring-recovery. However, the evaluation notes so far taken indicate that the following introductions are vigorous and leafy and probably worthy of further testing: P.I. 173737 Turk., 199305 Peru, 206573 Greece, 206575 Greece, 206576 Greece, 209091 Peru, G-22862 Can., G-22865 Can., G-22867 Can., G-22869 Can., G-22870 Can., G-22871 Can. and G-22875 Can.

Field tolerance to P. medicaginis was observed in P.I. 206573 Grc. and 209091 Peru. Some tolerance was noted in P.I. 210440 Iraq and in P.I. 223388 Iran. Leafhopper tolerance was observed in P.I. 209091 Peru.

All of the above alfalfa introductions have been control-pollinated and seed-increased at the Regional Plant Introduction Station, Geneva and seeds are now available to any cooperator on request.





